

एसजेवीएन थर्मल (प्रा.) लिमिटेड

**SJVN Thermal (P) Ltd**

(एसजेवीएन की पूर्ण स्वामित्व वाली अधीनस्थ कंपनी)  
(A wholly owned subsidiary of SJVN)

1320 मेगावाट बक्सर ताप विद्युत परियोजना

**1320 MW Buxar Thermal Power Project**

CIN: U31908BR2007PTC017646



No.: STPL/ BTPP/ Env./ Half Yearly/ 2026- 93

Dated: 30.05.2026

To.

**Deputy Director General of Forests (C),  
Ministry of Environment, Forest & Climate Change,  
Integrated Regional Office, 2nd Floor,  
Headquarter- Jharkhand State Housing Board,  
Harmu Chowk, Ranchi, Jharkhand – 834002**

**Email: ro[dot]ranchi-mef[at]gov[dot]in**

**Subject: Environment Clearance for 2x660 MW Coal Based Super Critical Buxar Thermal Power Project (BTPP) near village Chausa, District Buxar, Bihar by M/s. SJVN Thermal (P) Ltd. - Six Monthly Compliance Report for compliance period from 01.10.2025 to 31.03.2026 - Regarding.**

**Reference: Environment Clearance letter No. J-13012/69/2008/IA.I (T) dated 28.02.2017**

Sir,

With reference to the above-mentioned Environment Clearance letter, SJVN Thermal (P) Ltd. is pleased to submit the Six-Monthly Compliance Report of the conditions stipulated in Environment Clearance for the period from 01.10.2025 to 31.03.2026 in respect of 2x660 MW Buxar Thermal Power Project. The Six-Monthly Compliance Report is enclosed as **Annexure-I**.

Thanking you

Yours faithfully,  
For & on behalf of STPL

**(Rakesh Singh)**  
General Manager (Environment)  
SJVN Thermal Power (P) Ltd.  
1320 MW Buxar Thermal Power Project,  
Chausa, Buxar-802114 (Bihar)

**Encl.: As above**

पंजी. एवं कॉर्पोरेट कार्यालय: एसजेवीएन थर्मल (प्रा.) लिमिटेड,  
प्रशासनिक कार्यालय भवन, मोहनपुरवा, अखौरीपुर गोला,  
चौसा, बक्सर – 802114 (बिहार)  
दूरभाष: 06183-295105, फ़ैक्स: 06183-295165  
ईमेल: [ceo.stpl@sjvn.nic.in](mailto:ceo.stpl@sjvn.nic.in)

**Regd. & Corporate Office: SJVN Thermal (P) Ltd.,  
Admin. Office Building, Mohanpurwa, Akhouripur Gola,  
Chausa, Buxar – 802114 (Bihar)  
Tel: 06183-295105, Fax: 06183-295165  
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एसजेवीएन थर्मल (प्रा.) लिमिटेड  
**SJVN Thermal (P) Ltd**  
(एसजेवीएन की पूर्ण स्वामित्व वाली अधीनस्थ कंपनी)  
(A wholly owned subsidiary of SJVN)  
1320 मेगावाट बक्सर ताप विद्युत परियोजना  
**1320 MW Buxar Thermal Power Project**  
CIN: U31908BR2007PTC017646



**Copy for information to:**

1. Regional Director, Central Pollution Control Board (CPCB), Regional Directorate-Kolkata, 'South end Conclave' Block-502, 5th & 6th Floor, 1582, Razidanga, Main Road, Kolkata-700107.  
E-mail: mkbiswas.cpcb@nic.in
2. Bihar State Pollution Control Board (BSPCB), Parivesh Bhawan, Plot No. NS-B/2, Patliputra Industrial Area, Patliputra, Patna (Bihar) – 800010.  
E-mail: msbspcb-bih@gov.in, bspcb@yahoo.com

**N.O.O:**

Chief Executive Officer, 1320 MW Buxar Thermal Power Project, STPL, Chausa, Buxar for kind information please.

**पंजी. एवं कॉरपोरेट कार्यालय:** एसजेवीएन थर्मल (प्रा.) लिमिटेड,  
प्रशासनिक कार्यालय भवन, मोहनपुरवा, अखौरीपुर गोला,  
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## Annexure-I

### Six Monthly Monitoring Report on Compliance to Environmental Aspects (For period ending March 2026)

1) Description of the Project: -	
(i) Name of Project	<b>M/s SJVN Thermal Pvt. Limited, 1320 MW Buxar Thermal Power Project</b> (A wholly owned subsidiary of SJVN Limited - a Navratna PSU under Govt. of India)
(ii) Type of the Project	Thermal Power Project (1320 MW)
(iii) Location	New Office Building, Mohanpurwa, Akhouripur Gola, Chausa, Buxar, Bihar-802114
(iv) Contact Address: -	
(a) Concerned Project Head	<b>Chief Executive Officer,</b> New Office Building, Mohanpurwa, Akhouripur Gola, Chausa, Buxar, Bihar-802114 e-mail - <a href="mailto:ceo.stpl@sjvn.nic.in">ceo.stpl@sjvn.nic.in</a>
(b) Concerned Environment Division (Project)	<b>Head (Environment),</b> New Office Building, Mohanpurwa, Akhouripur Gola, Chausa, Buxar, Bihar-802114 e-mail - <a href="mailto:env.stpl@sjvn.nic.in">env.stpl@sjvn.nic.in</a>
(c) Concerned Environment Division (Corporate)	<b>Head (Environment),</b> SJVN Corporate Headquarters, Shanan, Shimla-171006 (Himachal Pradesh) e-mail - <a href="mailto:sjvnccd@sjvn.nic.in">sjvnccd@sjvn.nic.in</a>
<b>2) Environment Clearance</b>	J-13012/69/2008/IA.I (T) dated 28.02.2017

### 3. Compliance Report: -

Sr. No.	Condition in Environment Clearance	Compliance/ Status
<b>A. Specific conditions</b>		
i.	Land of 33% of the total project area would be earmarked for greenbelt development. 100 m wide greenbelt with 3 tiers around the plant boundary with plant density of 2,500 trees per hectare with local native species shall be developed.	Unit # 1 of project is commissioned on 14.11.2025 and Unit # 2 of project is at advanced stage of commissioning and due to machinery/ equipment movement, storage of erection parts, fabrication works, laying of rail infrastructure works, etc. the development of Green Belt and plantation work have been done in few patches only.  Memorandum of Understanding (MoU) has been signed with Bihar State Forest Department on dated 14.08.2025 for carrying out the plantation work at BTPP on 175.41 ha. area amounting to INR 12,36,55,036/- <b>(Appendix-1)</b> .

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Sr. No.	Condition in Environment Clearance	Compliance/ Status
		Advance amounting to INR 22,44,936/- deposited with Bihar State Forest Department, Bhojpur Forest Division, Ara.
ii.	Recommendations of Water Resource Department, Patna vide their letter dated 21.1.2017 shall be implemented for diverting the Buda nalla. Recommendations of IIT Roorkee shall also be implemented in this regard. Re-alignment has been proposed so as not to disturb the natural course of the drainage. Banks of the nalla to be strengthened near outfall locations. Solid waste disposal shall not be disposed in to nallah to maintain flow capacity of the nalla.	The work for diversion of Buddha Nalla is being implemented as per the approval of Flood Control Deptt., Government of Bihar and recommendation of water resource Dept, Patna and IIT, Roorkee. The work is in Progress. (Photographs are enclosed as <b>Appendix-2</b> ). It will be ensured that no Solid waste will be disposed in to nalla and the water flowing through this buddha nalla will not be used by project.
iii.	Site Specific Seismicity Study recommendations by IIT Roorkee shall be implemented in design of all structures and equipment. The design of the structures shall also be in accordance with the provisions of IS.1893 (Part-I):2002 and IS'1893 (Part 4): 2005	All structures and equipment shall be designed for seismic forces adopting the Site-Specific Seismic information recommendations by IIT Roorkee and using the other provisions in accordance with IS:1893 (Part-1): 2002 & IS:1893 (Part-4): 2005. The maximum horizontal Peak Ground Acceleration (PGA) value estimated from various Seismogenic sources for Buxar Thermal Power Project site, Bihar is 0.13g. However, the recommended horizontal PGA for the project site is 0.16g. This data has been used in plant structure.
iv	Flue Gas Desulphurization (FGD) and Selective Catalytic Reduction (SCR) shall be installed in the proposed Thermal Power Plant.	Both systems have been envisaged. FGD for Unit # 1 is in commissioning stage and for Unit # 2 it is in erection stage. SCR for Unit # 1 and 2 is in erection stage.
v	Sulphur and ash content in the imported coal shall not exceed 0.8% and 12% respectively. The Sulphur and ash content of domestic coal shall not exceed 0.6%/ and 34% respectively. In case of variation of quality at any point of time, fresh reference shall be made to the Ministry for suitable amendments to the environmental clearance.	Agreed.  Agreement for Long Term Coal Linkage has been signed with M/s. Central Coalfield Limited 27.07.2021 for supply of 49.76 Lakh TPA coal.
vi	The PP shall explore feasibility of Air-Cooled Condensers based on the guidelines of CEA. As proposed, Capital cost of <b>Rs. 1,311.32 Crores</b> shall be earmarked for implementation of Environment Management Plan. <b>CSR budget of Rs.61 Crores has been allocated which shall be spent in 10 years.</b> The CSR budget during	Water cooled condenser as per original scheme are being erected.  As per Public Investment Board (PIB) approval of BTTP, an amount of Rs. 1858.39 Crore (At January 2018 Price Level) have been earmarked for

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Sr. No.	Condition in Environment Clearance	Compliance/ Status
	operational phase shall be earmarked as per the CSR policy of Gol. Provision for water supply to be made for construction toilets under Swachh Bharat Abhiyan.	Environmental Protection Measures, which is more than the approved cost kept in Environment Clearance i.e. Rs. 1,311.32 crore. <b>(Appendix-3)</b> .  The schemes are being implemented at BTPP, STPL under SJVN Foundation CSR funds since 2014. As on date Rs. 28.06 crore expenditure has been done under Skill Development programme, nomination of youth for ITIs course, Horticulture/ Agriculture & Veterinary training etc. <b>(Appendix-4)</b> .
vii	MoEF&CC Notification S.O. 3305(E) dated 07.12.2015 shall be implemented with respect to specific water consumption, zero liquid discharge and revised emission standards. The PM, SO <sub>2</sub> , NO <sub>x</sub> and Hg emissions shall not exceed 30 mg/Nm <sup>3</sup> , 100 mg/Nm <sup>3</sup> , 100 mg/Nm <sup>3</sup> and 0.03 mg/Nm <sup>3</sup> respectively. The specific water consumption shall not exceed 2.5 m <sup>3</sup> /MWh and zero wastewater discharge shall be achieved.	Agreed.  The MoEF&CC Notification S.O. 3305(E) dated 7.12.2015 shall be implemented during operation of Buxar Thermal Power Project.
viii	MoEF&CC Notification G.S.R 02(E) dated 02.01.2014 regarding use of raw or blended or beneficiated or washed coal with ash content not exceeding 34% shall be complied with	Agreed.  MoEF&CC Notification G.S.R 02(E) dated 02.01.2014 regarding use of raw or blended or beneficiated or washed coal with ash content not exceeding 34% shall be complied during operation of Buxar Thermal Power Project.
ix	MoEF&CC Notifications on fly ash utilization S.O. 763(E) dated 14.09.1999, S.O. 979(E) dated 27.08.2003, S.O. 2804(E) dated 3.11.2009, S.O. 254(E) dated 25.01.2016 and subsequent amendments shall be complied with.	Agreed.  MoEF&CC Notifications on fly ash utilization S.O. 763(E) dated 14.09.1999, S.O. 979(E) dated 27.08.2003, S.O. 2804(E) dated 3.11.2009, S.O. 254(E) dated 25.01.2016 and subsequent amendments shall be complied during operation phase of Buxar Thermal Power Project.  Letter of Award has been issued to different agencies regarding Ash Utilization from BTPP as per provisions of MoEF&CC Gazette Notification dated 31.12.2021 and subsequent amendments. <b>(Appendix-5)</b>

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x	<p>Separate Environmental Clearance may be obtained for the proposed Township in an area of 95 acres with total built-up area of 1,21,178 sq. m as applicable. under EIA Notification 2006.</p> <p>Sewage Treatment Plant (STP) shall be set up in the township for treating wastewater of 900 m<sup>3</sup>/day.</p>	<p>Vide EC identification no: - EC22B038BR124616 approval has been accorded. <b>(Appendix-6)</b></p> <p>The Project township is under construction and Sewage Treatment Plant (STP) has been included in the plan of township complex, which will be commissioned before commencement of accommodation in the Project township.</p>
xi	<p>An estimate of 5.9 million cubic meters (9 million tons) of Soil would be required for leveling the site. Earth material will be sourced from land/ borrow pits from the nearby areas within 15 km radius from the site. Necessary permits and approvals shall be obtained from the concerned authorities for excavation of earth material.</p>	<p>Only 1,03,002 m<sup>3</sup> soil has been brought out from outside the plant boundary for which necessary approval/ permission has been obtained from State Mining Department <b>(Appendix-7)</b>. Balance soil requirement has been met from excavation of components within plant.</p>
xii	<p>As proposed, separate Environmental Cell with Environmental Engineers, Environmental Scientists, Occupational Health Specialist, Horticulture Specialist, and Social Scientist headed by Environment Head shall function and implement environmental management plan and monitoring activities.</p> <p>Company shall implement Environmental Management Systems, ISO 14001:2015 at the proposed project. Sustainability Reporting shall be done as per environment management plan.</p>	<p>A separate Environmental Cell has been constituted.</p> <p>Environment Management System - ISO 14001.2015 certificate has been obtained from Bureau of Indian Standard for all activities of Buxar Thermal Power Plant <b>(Appendix-8)</b>.</p>
xiii	<p>The compliance of EC conditions shall be reviewed on quarterly basis.</p> <p>In this regard, a compliance mechanism shall be set up through Plant Head who is responsible for implementing the conditions stipulated in the Environmental Clearance, non-compliances and violations.</p> <p>Budget to implement various environmental pollution control measures as proposed in the EMF shall be kept in a separate account and shall not be diverted for any other purposes.</p>	<p>Is being complied.</p>
xiv	<p>Vision document specifying prospective plan for the site shall be formulated and submitted to the Regional Office of the Ministry within six months.</p>	<p>STPL vide letter dated 29.04.2019 has submitted the project vision document to the Regional Office, MoEF&amp;CC at Ranchi. <b>(Appendix-9)</b></p>
xv	<p>Harnessing solar power within the premises of the plant particularly at available roof tops shall be carried out and status of implementation including</p>	<p>The installation of 1 MW Solar Rooftop system is envisaged over the available rooftops. The stated condition shall be complied once the plant is fully</p>

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	actual generation of solar power shall be submitted along with half yearly monitoring report.	commissioned and rooftops of various buildings is available for erection of Solar Panels. The project township is under construction.
xvi	A long-term study of radio activity and heavy metals contents on coal to be used shall be carried out through a reputed institute and results thereof analyzed every two year and reported along with monitoring reports. Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.	Agreed. The compliance of stated condition shall be done within 02 years of the start of coal supply to the Plant.
xvii	Online continuous monitoring system for stack emission, ambient air and effluent shall be installed.	Online continuous monitoring system for stack emission has been installed and data is being transmitted regularly to CPCB and BSPCB. Online continuous ambient air monitoring system has been installed and connectivity with CPCB and BSPCB is in process. Online continuous effluent monitoring system is under erection. However, Ambient Air quality monitoring is also being done as per location identified by BSPCB <b>(Annexure-10)</b> .
xviii	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 30 mg/Nm <sup>3</sup> or as would be notified by the Ministry, whichever is lesser. Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided along with an environment friendly sludge disposal system.	Electrostatic Precipitators (ESP) for Unit # 1 has been commissioned and is working in full swing. Erection of ESP for Unit # 2 is in progress. Moreover, bag filter and water spray system are also installed in high dusty areas like coal and ash handling points. Frequency of watering on road for dust suppression shall be ensured as per requirement.
xix	Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	Dust extraction system along with dust suppression (water spray) has been envisaged in high dusty areas like coal and ash handling points as per Environment Clearance.
xx	CoC of at least 5.0 shall be adopted	Shall be complied.
xxi	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	Monthly Monitoring of water quality parameters in ground water are being done in accordance with the IS10500:2012 and surface water quality monitoring are being done in accordance with the 2296:1992. The

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	<p>maintained. Monitoring for heavy metals in ground water shall also be undertaken and results/findings submitted along with <b>half yearly monitoring report</b>.</p>	<p>monitoring results are being submitted to MoEF&amp;CC along with half yearly report and on monthly basis to Bihar Pollution Control Board.</p> <p>The ground water quality monitoring results at project are attached as <b>Appendix-11</b>.</p>
xxii	<p>A well-designed rain water harvesting system shall be put in place <b>within six months</b>, which shall comprise of rain water collection from the built up and open area in the plant premises and detailed record kept of the quantity of water harvested every year and its use</p>	<p>A 50,000 cubic meter capacity of Rain water harvesting pond is envisaged in the Project for collection of rainwater. <b>Appendix-12</b>.</p> <p>The rainfall runoff shall be collected through drains in a Rain water Harvesting Pond (RWHP) and water from the RWHP shall be 100% used in dry season.</p>
xxiii	<p>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 except Buda nalla as proposed for re-alignment without affecting natural drainage</p>	<p>Shall be ensured.</p> <p>The work for diversion of Buddha Nallah is being implemented as per the approval of Flood Control Deptt., Government of Bihar (<b>Appendix-13</b>) and recommendation of water resource Dept, Patna and IIT, Roorkee. The work is in Progress and likely to be completed shortly. (Photographs are enclosed as <b>Appendix-2</b>).</p>
xxiv	<p>Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved</p>	<p>Is being ensured. Considering the balancing of excavation and filling requirement up to the extent possible.</p>
xxv	<p>Fly ash shall be collected in dry form and storage facility (silos) shall be provided. Mercury and other heavy metals (As, Hg, Cr, Pb etc.) shall be monitored in the bottom ash. No ash shall be disposed of in low lying area</p>	<p>Bottom Ash in the form of slurry is being collected and stored in ash lagoons/ dyke.</p> <p>Monitoring of Heavy Metals in bottom ash shall be done.</p> <p>For dry fly ash 04 nos. silos with effective capacity of 7200 m<sup>3</sup> (4x1800 m<sup>3</sup>) are provisioned.</p>
xxvi	<p>No mine void filling will be undertaken as an option for ash utilization without adequate lining of mine with suitable media such that no leachate shall take place at any point of time. In case, the option of mine void filling is to be adopted, prior detailed study of soil characteristics of the mine area shall be undertaken from an institute of repute and adequate clay lining shall be ascertained by the</p>	<p>Shall be duly complied if required in future.</p>

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	State Pollution Control Board and implementation done in close co-ordination with the State Pollution Control Board.	
xxvii	Fugitive emission of fly ash (dry or wet) shall be controlled such that no agricultural or non-agricultural land is affected. Damage to any land shall be mitigated and suitable compensation provided in consultation with the local Panchayat.	Agreed. The stated condition shall be complied during operation of Project.
xxviii	Green Belt consisting of three tiers of plantations of native species all around plant and at least 50 m width shall be raised. Wherever 50 m width is not feasible a 20 m width shall be raised and adequate justification shall be submitted to the Ministry. Tree density shall not be less than 2500 per ha with survival rate not less than 80%.	Unit # 1 of project is commissioned on 14.11.2025 and Unit # 2 of project is at advanced stage of commissioning and due to machinery/ equipment movement, storage of erection parts, fabrication works, laying of rail infrastructure works, etc. the development of Green Belt and plantation work have been done in few patches only.  Memorandum of Understanding (MoU) has been signed with Bihar State Forest Department on dated 14.08.2025 for carrying out the plantation work at BTPP on 175.41 ha. area amounting to INR 12,36,55,036/- <b>(Appendix-1)</b> . Advance amounting to INR 22,44,936/- deposited with Bihar State Forest Department, Bhojpur Forest Division, Ara.
xxix	Green belt shall also be developed around the Ash Pond over and above the Green Belt around the plant boundary.	As per above. Planation shall be done around ash dyke/ pond area to control the dust particles.
xxx	The project proponent shall formulate a well laid Corporate Environment Policy and identify and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with the conditions stipulated in this clearance letter and other applicable environmental laws and regulations	Shall be duly complied  SJVN has a well-established Corporate Environment Policy, which can be seen at <a href="https://sjvn.nic.in/en/environment-policy">https://sjvn.nic.in/en/environment-policy</a> <b>(Appendix-14)</b> .
xxxi	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 programmes.	Schemes are being implemented since 2014 at Buxar Thermal Power Plant as per CSR Policy on behalf of SJVN Foundation.  The schemes are being implemented at BTPP, STPL under SJVN Foundation CSR funds since 2014. As on date Rs. 28.06 crore expenditure has been done under Skill Development programme, nomination

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		of youth for ITIs course, Horticulture/ Agriculture & Veterinary training etc.
xxxii	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	The works for STPL are being implemented through the SJVN-CSR foundation. All the CSR activities are being monitored by CSR Department, SJVN Corporate Head Quarter, Shimla. In this regard, a Screening Committee has been constituted at Buxar Thermal Power Plant; 1. Sh. Rahul Singh, Manager (HR) – CSR. 2. Sh. Pankaj Singh, Manager (Civil) 3. Sh. Pawan Gupta, Officer (F&A)
<b>Part B: General conditions</b>		
i.	The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant. Arrangements shall be made that effluents and storm water do not get mixed.	Agreed. Shall be complied with commissioning of Project.
ii.	A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation	Agreed. A 60 KLD Sewage Treatment Plant (STP) and 50 m <sup>3</sup> per hour Effluent Treatment Plant (ETP) are under construction. The treated water will be reused as per stated condition.
iii.	Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season. Copy of these measures with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry.	To ensure the Fire safety measures, fire safety plan is being implemented in the project including coal yard, during operation of project. The Project has Water tender, Foam fire tender and DCP fire tender to handle the fire emergency. Additionally, CISF-Fire Wing is also deployed at plant premises for Fire safety.
iv	Storage facilities for auxiliary liquid fuel such as LDO/ HFO/LSHS shall be made in the plant area in consultation with Department of Explosives, Nagpur.  Sulphur content in the liquid fuel will not exceed 0.5%. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil	Approval from Jt. Chief Controller of Explosive, Kolkata under Petroleum & Explosives Safety Organization (PESO) has been obtained vide reference no.: P/EC/BI/15/1910 (P522050) dated 24.12.2024 ( <b>Appendix-15</b> ).  To deal with the disaster & emergency related matter an Emergency Preparedness Plan has been got prepared from National Safety Council, Mumbai ( <b>Appendix-16</b> ).
v	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	First Aid boxes have been kept at different locations at Buxar Thermal Power Project (Offices, Construction

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		site, Guest House, substation, Bachelor accommodation, Security Main gate etc.). The sanitation arrangements are available for all persons including drivers and other contract workers.
vi	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 85 dB(A) from source. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc. shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non-noisy/less noisy areas.	Unit#1 of project is commissioned and Unit#2 of project is under construction. The stated condition shall be duly complied during commissioning and operation period. 468 no. ear plugs have been provided to workers involved in assembling work of Turbine and Generator. The Noise quality Report is enclosed ( <b>Appendix-17</b> ).
vii	Regular monitoring of ambient air ground level concentration of SO <sub>2</sub> , NO <sub>x</sub> , PM <sub>2.5</sub> & PM <sub>10</sub> and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company	Shall be duly complied. Monthly monitoring of ambient air quality is being carried out at 04 location decided by Bihar State Pollution Control Board ( <b>Appendix-10</b> ) for parameters mentioned in CPCB notification dated 18.11.2009. The monitoring result of ambient air quality monitoring at different locations of Project is attached at <b>Appendix-18</b> .
viii	Utilization of 100% Fly Ash generated shall be made from 4th year of operation. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.	Tie-ups for Ash utilization has been done for 100% Ash utilization ( <b>Appendix-5</b> ).
ix	Provision shall be made for the housing of construction labour (as applicable) within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	The construction work of the project is being carried out through contractor (M/s L&T). The construction workers engaged in contraction work has facilitated with necessary amenities by the contractor like labour colony, toilets, electricity, transpiration, safe drinking water and sanitation, first aid & ambulance. However, workers from nearby villages are also employed in the construction activity, they reside in their own home.
x	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded	Advertisement published in Dainik Jagran and Hindustan on 05/03/2017 and 09/03/2017 respectively. ( <b>Appendix-19</b> ).

*Sush*

Sr. No.	Condition in Environment Clearance	Compliance/ Status
	environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at the Website of MoEF&CC at <a href="http://envfor.nic.in">http://envfor.nic.in</a> .	
xi	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, urban local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Environment Clearance letter available on company website <a href="http://www.sjvn.nic.in">www.sjvn.nic.in</a> and shared with concerned Panchayat offices, Urban Local Body, District Magistrate, municipal corporation. The event of grant of environment clearance was also publicized through advertisement in the newspapers Dainik Jagran and Hindustan on 05/03/2017 and 09/03/2017 respectively. The advertisements are placed at <b>(Appendix-19)</b> . Copy of receipt of Environment Clearance from Panchayat is enclosed at <b>Appendix-20</b> .
xii	The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM (PM2.5 & PM10), SO2, NOx (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain	Six-monthly compliance reports are being regularly submitted to MoEF&CC & MoEF&CC Regional Office, Ranchi and Bihar State Pollution Control Board, Patna and also uploaded on our website <a href="http://www.sjvn.nic.in">www.sjvn.nic.in</a> .  The last compliance report for the period ending September 2025 was submitted on 27.11.2025. The continuous online stack monitoring system has been installed.
xiii	The environment statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.	The environment statement report for F.Y. 2024-2025 has been submitted on 23.09.2025.
xiv	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to MoEF&CC, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of	Six-monthly compliance reports are being regularly submitted to MoEF&CC & MoEF&CC Regional Office, Ranchi and Bihar State Pollution Control Board, Patna and

*Srjh*

Sr. No.	Condition in Environment Clearance	Compliance/ Status
	compliance of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, MoEF&CC.	also uploaded on our website <a href="http://www.sjvn.nic.in">www.sjvn.nic.in</a> .  The last compliance report for the period ending September 2025 was submitted on 27.11.2025.
xv	The progress of the project shall be submitted to CEA on six monthly basis.	Shall be duly complied.
xvi	Regional Office of the MoEF&CC will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will upload the compliance status in their website and update the same from time to time at least six-monthly basis. Criteria pollutants levels including NOx (from stack & ambient air) shall be displayed at the main gate of the power plant.	Complete set of requisite documents shared with MoEF&CC regional office on 20/04/2017 and project updates being shared regularly vide half yearly compliance reports <b>(Appendix-21)</b> .
xvii	Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These costs shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.	As per Public Investment Board (PIB) approval of BTTP, an amount of Rs. 1858.39 Crore (At January 2018 Price Level) have been earmarked for Environmental Protection Measures, which is more than the approved cost kept in Environment Clearance i.e. Rs. 1,311.32 Crores. <b>(Appendix-3)</b>
xviii	The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.	The Cabinet Committee on Economic Affairs, chaired by the Prime Minister had given its approval on 07/03/2019 for investment approval for 2x660 MW Buxar Thermal Power Project (Buxar TPP) in District Buxar of Bihar.  The project will be completed at an estimated cost of Rs. 10,439.09 crore and implemented by SJVN Thermal Private Ltd., a wholly owned subsidiary of SJVN Ltd., a CPSU under Ministry of Power, Government of India. The said approval was communicated by Ministry of Power, GoI vide letter No. FU-18/2027-IPC dated 08/03/2019. The commissioning of Unit # 1 (660 MW) of Buxar TPP has been achieved on 14-11-2025.
xix	Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional	Agreed.

*Sujh*

Sr. No.	Condition in Environment Clearance	Compliance/ Status
	Office of the Ministry / CPCB/ SPCB who would be monitoring the compliance of environmental status	
10.	The environment clearance accorded shall be valid for a period of 7 years from the date of issue of this letter to start operations by the power plant.	The Environment Clearance was accorded on 28.02.2017 and valid till 27.02.2027, considering the Office Memorandum dated 13.12.2022 in line with S.O. No.: 1807(E) dated 12.04.2022.

*Sydh*

## MEMORANDUM OF UNDERSTANDING

**Memorandum of Understanding (MoU) for Development of Greenbelt by Plantation of 428525 saplings in 1320 MW Buxar Thermal Power Plant (BTPP), SJVN Thermal (P.) Ltd. (STPL) by Bihar State Forest Department, Ara on deposit work basis.**

This agreement is made on this **14<sup>th</sup> day of August of 2025** by and between

### **FIRST PARTY**

SJVN Thermal (P.) Ltd. (STPL) having site office at Mohanpurwa, Akhouripur Gola, Chausa, Buxar - 802114 (Bihar), which will act as the funding agency.

and

### **SECOND PARTY**

Bhojpur Forest Division Office, Kaanan Kothi, Dhanupara, Ara, Bhojpur - 802301 (Bihar), which will act as the Executing agency.

This Memorandum of Understanding is being executed by both parties in the backdrop of following details:

1. 1320 MW Buxar Thermal Power Project is situated on Buxar-Sasaram State Highway (SH-17). Its core business is power generation and 2 units of 660 MW each (as Stage-I) is under installation at Mohanpurwa, Akhouripur Gola, Chausa, Buxar.
2. In compliance of "Greenbelt Development" mentioned in the Environment Clearance of BTPP under Specific Conditions, STPL has planned to execute plantation work in BTPP area.
3. STPL had approached to DFO, Ara for plantation work in BTPP area vide Letter no.: STPL/BTPP/Env./2024-1605 dated 16.02.2024. In response, RCCF, Patna had submitted their estimate for plantation regarding Greenbelt development vide Letter no.: 2 Budget 78/ 2024-935 and 936 dated 03.09.2024 with plantation completion schedule by 2028-29.
4. The plantation activity consists of greenbelt development including plantation, maintenance of approx. 428525 plants on 175.41 ha. land at different locations earmarked in BTPP as per Annexure – A.
5. **EIC & Coordinating person:**  
G.M. (Environment) will be Engineer-In-Charge (EIC) for this work. However, the BTPP shall intimate the name, address, contact number of coordinating executive for day-to-day monitoring/ coordination of the work. Similarly, Range Forest Officer (R.F.O.), Buxar will be the coordinating official from the executing Department/ agency for smooth coordination of works at local level.

### **6. Terms & Conditions:**

- a) Memorandum of Understanding shall be signed by D.F.O., Ara, Bihar or his




designate & C.E.O., STPL or any other person deputed by him on the behalf of STPL.

- b) The plantation works shall be carried out at BTPP, Chausa, with professional expertise and other provisions of the MoU.
- c) Forestry plant species will be planted as per direction.
- d) Plantation preparation work will commence after obtaining NOC from STPL, Chausa for specific area demarcated for Greenbelt development.
- e) The purpose of the entire program is to save the endangered environment and greening of earth.
- f) Taxes and duties shall be extra as applicable during the course of execution.

#### 7. Ownership:

The ownership of plantation shall vest with the STPL, Chausa with whom the ownership rights exist on the day of plantation. In case Forest Department/ BTPP, decides to cut and sell off the trees after the rotation period at a later date, the sale proceeds shall accrue to the BTPP funds.

#### 8. Payment Modalities:

Fund shall be released (through e-payment) by the STPL in instalment as per the payment schedule, as given below.

#### 9. Payment Schedule:

Payment for plantation i.e. year wise will be released in the following lines:

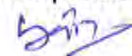
S. No.	Description	Amount (INR)	Remarks
<b>Phase – I (35600 saplings)</b>			
1.	Preparatory cost (2025-2026)	22,44,936/-	As an advance for preparatory works for plantation of 35600 saplings
2.	Completion cost (2025-2026)	59,07,863/-	As an advance for completion works for plantation of 35600 saplings after submission of utilization certificate for the preceding instalment
3.	1 <sup>st</sup> Year Maintenance cost (2026-2027)	11,77,755/-	As an advance for maintenance of 35600 saplings after submission of utilization certificate for the preceding instalment.
4.	2 <sup>nd</sup> Year Maintenance cost (2027-2028)	12,31,289/-	As an advance for maintenance of 35600 saplings after submission of utilization certificate for the preceding instalment.
5.	3 <sup>rd</sup> Year Maintenance cost (2028-2029)	3,66,344/-	As an advance for maintenance of 35600 saplings after submission of utilization certificate for the preceding instalment.
	<b>Sub-Total Phase – I</b>	<b>1,09,28,187/-</b>	

S. No.	Description	Amount (INR)	Remarks
<b>Phase – II (392925 saplings)</b>			
1.	Preparatory cost (2025-2026)	7,54,76,150/-	As an advance for preparatory works for plantation of 392925 saplings.
2.	Completion cost (2026-2027)	1,52,78,068/-	As an advance for completion works for plantation of 392925 saplings after submission of utilization certificate for the preceding instalment.
3.	1 <sup>st</sup> Year Maintenance cost (2027-2028)	87,78,977/-	As an advance for maintenance of 392925 saplings after submission of utilization certificate for the preceding instalment.
4.	2 <sup>nd</sup> Year Maintenance cost (2028-2029)	91,77,662/-	As an advance for maintenance of 392925 saplings after submission of utilization certificate for the preceding instalment.
5.	3 <sup>rd</sup> Year Maintenance cost (2029-2030)	7,32,686/-	As an advance for maintenance of 392925 saplings after submission of utilization certificate for the preceding instalment.
6.	Contingency and Miscellaneous cost for labour wages	10,94,435/-	Released on annual basis at the end of each financial year.
7.	Contingency and Miscellaneous cost for supervision and inspection vehicle, water tanker and tractor vehicle for watering of plants and inspection hut	21,88,871/-	Released on annual basis at the end of each financial year.
	<b>Sub-Total Phase – II</b>	<b>11,27,26,849/-</b>	
	<b>Total for Phase – I &amp; II</b>	<b>12,36,55,036/-</b>	

Release of funds, activity wise, is subject to furnishing of utilisation certificate for the preceding instalments. At the end of every financial year, DFO, Ara has to submit utilization certificate for settlement of advance.

#### 10. Inspection Mechanism:

Joint Inspections of the concern plantation works shall be done jointly by the concerned nominated officials from DFO, Ara, Bihar and STPL, Chausa as and when required.

**11. Survival rate:**

Forest department undertakes to replenish/ replace the number of trees to meet the survival as per departmental norms at the end of the maintenance period.

**12. Dispute Resolution:**

In case of any dispute, confusion or difference between the parties hereto, DFO, Ara, Bihar and the G.M. (Environment), BTPP or his authorized representative shall confer together and arrive at a mutually agreeable solution, which shall henceforth be binding upon both the parties.

**13. Validity:**

This MoU shall be valid for period up to 31.03.2030.

**14. Scope of Modification:**

Any modification, alteration, addition or deletion in Terms and Conditions of MoU shall be done as and when required during the validity of MoU period, mutually agreed by STPL and DFO Ara.

**15. Force majeure:**

Neither party shall be held responsible for non-fulfilment of their obligations under this MoU due to the exigency of one or more of the force majeure events such as but not limited to acts of God, war, flood, earthquakes, strikes, lockouts, epidemics, riots, civil commotion etc. Provided on the occurrence and succession of any such event, the party affected thereby shall give a notice in writing to the other party within one month of such occurrence or succession. If the force majeure condition continues beyond six months, the parties shall then mutually decide about the future course of action.

This Memorandum of Understanding is executed between DFO, Ara and STPL, Chausa on the **14<sup>th</sup> day of August of 2025** and will be effective from the date of its execution and shall be valid up to 31.03.2030 unless any modification or alteration takes place as per the Terms and Conditions of this MoU.

(Signature)

*Pradeep Singh*

Name:

*Pradeep Singh*

Designation:

*GM (Environment)*

Organization:

*STPL, Buxar*

(Signature)

*Pradyumn Gauran*  
*14/8/25*

Name:

*PRADYUMN GAURAN*

Designation:

*DFO BHOJPUR*

Organization:

*DEFCC, Bihar*



महाप्रबन्धक ( सिविल )  
General Manager ( Civil )  
पर्यावरण विभाग / Environment Department  
एसटीपीएल, चौसा- बुक्सर  
STPL, Chausa- Buxar

DIVISIONAL FOREST OFFICER  
BHOJPUR FOREST DIVISION, ARA









सत्यमेव जयते

**No.FU-18/2017-IPC**  
**Government of India**  
**Ministry of Power**

Shram Shakti Bhawan, Rafi Marg  
New Delhi dated 08.03.2019

To,  
The Chairman & Managing Director  
SJVN Limited, Corporate Office Complex,  
Shanan, Shimla (HP)-171006

**Sub: Investment Approval for 1320 MW Buxar TPP being executed through SJVN Thermal Pvt. Ltd. (a wholly owned Subsidiary of SJVN Limited), regarding.**

In reference to communication received from Cabinet Secretariat vide D.O. No. CCEA/07/2019(vii) dated 07.03.2019, the undersigned is directed to inform that the Government has approved the following:

- (a) The implementation of 1320 MW Buxar Thermal Power Project with an investment of Rs. 10,439.09 Crore including Interest During Construction (IDC) of Rs. 1146.50 Crore and Financing Charges (FC) of Rs. 36.54 Crore at January 2018 Price Level since SJVNL has given commitment to complete and commission the project with no cost and time overrun subject to variation on account of taxes and duties, foreign currency exchange rates, force majeure and circumstances beyond the control of SJVNL.
  - (b) Supply of not less than 85% of generated power to power distribution company(ies) of Bihar Govt in accordance with the Memorandum of Understanding with the Govt of Bihar,
  - (c) Ex-post facto approval for the cumulative expenditure amounting to Rs. 533.50 Crore against investment approval for pre-construction activities amounting to Rs. 436.68 Crore.
  - (d) Ex-post facto approval for creation of SJVN Thermal Pvt. Ltd. - 100% (wholly) owned subsidiary of SJVN Ltd. and
  - (e) Approval for equity investment upto Rs. 3131.72 Crores at 30% of total project cost at January 2018 Price level by SJVN Ltd. in SJVN Thermal Pvt. Ltd. for implementation of 1320 MW Buxar Thermal Power Project.
2. Commercial Operation Date (COD) of the first unit (660 MW) is envisaged in 52 months from the date of investment approval and the second unit (660 MW) at an interval of six months thereafter.
  3. This issues with the concurrence of the Integrated Finance Wing of Ministry of Power vide their diary No. 56/Finance/2019 dated 08.03.2019.

Yours faithfully,

(S. Majumdar)

Under Secretary to the Govt. of India

Tel: 2335 6938

No.FU-18/2017-IPC  
Government of India  
Ministry of Power

**Copy to:**

1. Principal Pay & Accounts Officer, Ministry of Power, New Delhi.
2. Office of the Principal Director of Commercial Audit and Ex-officio Member Audit Board-III, CAG Building (Annexe), New Delhi-110124.
3. Principal Director of Audit, Economic & Service Ministries, AGCR Building, New Delhi
4. Chairperson, Central Electricity Authority, Sewa Bhawan, New Delhi.
5. Advisor (PAMD), NITI Aayog, Parliament Street, New Delhi.
6. Ministry of Finance (Deptt. of Expenditure) PF-II Division, North Block, New Delhi.
7. Secretary, Ministry of Statistics & Programme Implementation, Sardar Patel Bhawan, New Delhi.
8. Secretary, Ministry of Finance (Deptt. of Economic Affairs), North Block, New Delhi.

**Copy also to:**

1. PS to Minister of State for Power and New & Renewable Energy (I/C)
2. PPS to Secretary (Power)/ PPS to AS(SNS)/ PPS to JS&FA/ PS to JS(Thermal), Ministry of Power, New Delhi.
3. Finance Section/ Budget Section, Ministry of Power, New Delhi.

**ABSTRACT COST ESTIMATE  
(COST PROVISION FOR ENVIRONMENTAL MEASURES)**

				Price Level (Jan, 2018)
				Rs. In Crore
<b>PROJECT : Buxar TPP (2x 660MW)</b>				
Sl. No.	Item Description	FC	IC	Sub - Total
1	Electrostatic Precipitator	0.00	206.37	206.37
2	Chimney	0.00	65.49	65.49
3	Cooling Towers incl. Civil Works	0.00	125.91	125.91
4	Ash Handling	0.00	255.27	255.27
5	Ash Dyke - First 9 years	0.00	90.49	90.49
6	Dust Extraction & Suppression System	0.00	5.09	5.09
7	DM plant waste treatment systems	0.00	5.09	5.09
8	Sewerage collection, treatment & disposal	0.00	4.07	4.07
9	Environmental lab. Equipment	0.00	5.59	5.59
10	Green Belt, Afforestation & Landscaping	0.00	20.85	20.85
11	SCR	0.00	501.48	501.48
12	FGD	0.00	572.68	572.68
	<b>Total</b>	<b>0.00</b>	<b>1858.39</b>	<b>1858.39</b>

**Details of major CSR projects/activities undertaken by SJVN Foundation at BTPP since 2014-15 to 31.03.2026**  
(all figures are in lakhs)

S. No	Financial Year	Name of Activity	Commencement Year	Completion Year	Expenditure incurred in ₹Lakhs	Cumulative Expenditure in ₹Lakhs	Beneficiaries
1	2014-15	<b><u>Infrastructural Development &amp; community asset creation</u></b>					
		Survey of Toilets constructed under Swachh Vidyalaya Abhiyan	2014	2015	1.70	<b>1.70</b>	794 toilets in schools of 6 districts of Bihar
2	2015-16	<b><u>1. Health &amp; Hygiene</u></b>					
		1.a. Running of 02 Mobile Medical Units in & around project affected areas	2015	2015	40.29		7484 Patients
		<b><u>2. Education and Skill Development</u></b>	2015	2015			
		2.a. Providing scholarship under SJVN Silver Jubilee Merit Scholarship Programme	2015	2015	0.76		30 students
		<b><u>3. Infrastructural Development &amp; community asset creation</u></b>					
		3.a. Construction of 794 toilets under swachh vidyalaya abhiyan in the state of Bihar	2015	2016	702.00		Schools in 6 districts of Bihar
					<b>Total</b>	<b>744.75</b>	
3	2016-17	<b><u>1. Health &amp; Hygiene</u></b>					
		1.a. Running of 02 Mobile Medical Units in & around project affected areas	2016	2017	90.81		8422 Patients
		<b><u>2. Education and Skill Development</u></b>					
		2.a. Providing scholarship under SJVN Silver Jubilee Merit Scholarship Programme	2016	2016	3.00		41 Students
		2.b. Organised skill development programme for youths	2016	2016	4.50		40
		2.c. Training of local youths	2016	2016	1.05		
		<b><u>3. Infrastructural Development &amp; community asset creation</u></b>					
		3.a. Renovation of Kamal Da Pokhara at Buxar	2016	2017	21.00		Buxar District
		3.b. Construction of Mela Shed at Haridas Baba Ki Kutiya near Bechanpurwa	2016	2017	6.00		
		<b><u>4. Preservation &amp; Promotion of cultural heritage, melas and sports</u></b>					
		4.a. Financial aids for local melas	2016	2017	0.50		
		4.b. Promotion of sports in Project Area	2016	2016	0.12		
		<b><u>5. Assistance to the victims of natural disasters/calamities</u></b>	2016	2016	2.45		
		<b><u>6. Miscellaneous and unforeseen expenditure</u></b>	2016	2017	0.07		
					<b>Total</b>	<b>129.50</b>	

4	2017-18	<b>1. Health &amp; Hygiene</b>					
		1.a. Running of 02 Mobile Medical Units in & around project affected areas	2017	2018	42.53		24917 Patients
		1.b. Organizing 10 Health & Sanitation awareness Drive campaign through Bhartiya Sankalp Path Foundation	2017	2018	2.25		Buxar District
		1.c. Organizing health camps in project area village by M/s HelpAge India	2017	2018	6.25		
		1.d. Women empowerment including support under existing women and child welfare schemes. (First Installment)	2017	2018	3.25		70 women
		<b>2. Education and Skill Development</b>					
		2.a. Reward scheme for topper students of Project areas/merit scholarship for wards of PAFs.	2017	2018	2.80		13
		2.b. Organised skill development programme for youths	2017	2018	8.65		200 youth
		2.c. Distribution scholarship under SJVN Silver Jubilee Merit Scholarship Scheme	2017	2018	10.32		43 Students
		<b>3. Financial support for Educational Institutes</b>					
		3.a. Providing Bench Desk of 275 nos. for 03 Govt. Schools of PAA	2017	2018	8.01		
		3.b. Providing Lab Equipment's to 03 Govt. Schools of PAA.	2017	2018	1.58		
		3.c. Organised Music workshop at Maharshi Chawan Mahavidyalaya Buxar	2017	2018	0.25		
		<b>4. Infrastructural Development &amp; community asset creation</b>					
		4.a. Construction of Health Sub-Center at Banarpur village, Buxar	2017	2018	8.20		
		4.b. Construction of Toilet at Collectariate, Buxar (03-Male, 03-Female)	2017	2018	5.79		
		4.c. Providing 02 nos. Badminton Floor Mat to Buxar District Badminton Association	2017	2018	5.80		
		4.d. Expenditure booked on distribution of Sound System, Supply of Utensil, Cycles (150 nos.) in Girdih constituency area	2017	2018	8.59		
		4.e. Provided water cooler and purifier system for Collectariate Office, Buxar	2017	2017	0.46		
		4.f. Provided water cooler for Indoor Badminton Court at Buxar	2017	2017	0.45		
		4.g. Distribution of items for physically challenged by ALIMCO	2017	2018	9.75		
		<b>5. Assistance to the victims of natural disasters/calamities</b>					
		5.a. Donation to Mukhyamantri Aapda Kosh	2017	2018	25.00		
		5.b. Distribution of 2000 pcs. food packets along with saari and dhoti.	2017	2017	19.33		
					<b>Total</b>		<b>169.26</b>
5	2018-19	<b>1. Health &amp; Hygiene</b>					
		1.a. Running of 02 Mobile Medical Units in & around project affected areas	2018	2019	52.46		26026 Patients
		1.b. donation of Medicines to PHC, Chausa for flood relief	2018	2018	1.06		
		1.c. Organized blood donation camp in project affected area	2018	2019	0.90		
		1.d. Organized health camps in project area villages	2018	2019	2.07		
		1.e. Financial support to welfare projects for differently abled and health institutes - MoU Signed on 06.12.2018 between SJVN Foundation and ALIMCO, Kanpur for organising 2 camps for differently abled at Buxar (Bihar)	2018	2019	16.25		

	1.f. Eradicating hunger, poverty and awareness campaign on health and sanitation (SBM) - organized various activities under swachhta pakhwara	2018	2018	1.88		
	<b>1.1. Sanitation</b>					
	1.1.a. Construction of Toilets for Divyangjan in M.C. College and Primary Health Centre, Chausa is under process, work awarded on 04/07/2018, estimated work completion time is 2.5 month	2018	2019	3.30		
	1.1.b. Maintenance of toilets constructed under Swachh Vidyalaya Abhiyan (SVA)	2018	2019	39.60		
	1.1.c. Sanitation activities such as - on distribution of Sanitary Napkin in Govt. girls high school. - Honorarium to guest faculty on the occasion of Inter Biodiversity Day. - Prize money (essay/slogan writing competition in Govt. schools) - Snacks for participants during whole Swachhta Pakhawada. - for running of Monadi Vehicle (25.09.18-01.10.18) - for cleanliness items (saops, liquid handwash, mask, broom etc)	2018	2019	0.96		
	<b>2. Education and Skill Development</b>					
	2.a. Nomination of 25 nos. Project affected youth in Govt ITIs and financial support for residential coaching to economically poor but talented students	2018	2019	6.35		25
	2.b. Reward scheme for topper students of project areas/merit scholarship for ward of PAFs - 20 students under SJVN Topper students merit scholarship scheme	2018	2019	1.35		41 Students
	2.c. Skilled development program for youth by M/s NIESBD, Dehradun					100 youth
	<b>3. Financial support for Educational Institutes</b>					
	3.a. Providing various items to Govt. Schools of PAA Plastic Chair Dari Steel Almirah Table	2018	2019	2.62		
	<b>4. Empowerment of vulnerable section of Society</b>					
	4.a. Maternal health including support under existing women and child welfare schemes - Rs. 3,50,000/- Case processed for 70 Women applicants under SJVN Silver Jubilee Women and Child care scheme. Cheque will be distributed after receiving by CHQ, Shimla. Rs. 41,955/- for Gift pack of FY 2017-18 to M/s Helpage India. (Second Installment)	2018	2019	3.92		
	<b>5. Preservation and promotion of Culture, heritage and iconic places</b>					
	5.a. Renovation and maintenance of iconic places of cultural and heritage importance (SBM)	2018	2019	11.52		
	5.b. Promotion of Culture - Support to Sri Ganga Aarti Sewa Trust for preservation and promotion of culture, heritage and for conducting cleanliness drive at Ganga Ghat on the occasion of Ganga Dushahara (24.05.2018).	2018	2018	0.25		
	<b>6. Infrastructural Development &amp; community asset creation</b>					

		6.a. - installation of dustbins at public places at Buxar. - plantation drive at public places at Buxar. - inauguration ceremony of Health Sub Center, Banarpur - installation of dustbins at public places at Chausa	2018	2019	3.15		
		6.b. Construction of GS sheet shed and fencing for the conservation of cultural and historical place at Bechanpurva village, block chausa, district Buxar.	2018	2019	3.46		
		6.c. supply of furniture items to Health Sub Centre, Banarpur	2018	2018	0.80		
		6.d. Procured and distributed 10 nos. kent water ATM. In project affected areas	2018	2019	27.00		
		6.e. Provided Sewing Machine to Giridih Constitutional area	2018	2018	1.60		
		6.f. Assistance to District Administration by providing RO water Purifier and seating arrangements for public	2018	2019	1.55		
					<b>Total</b>	<b>182.05</b>	
6	2019-20	<b>1. Health &amp; Hygiene</b>					
		1.a. Running of 02 Mobile Medical Units in & around project affected areas	2019	2020	57.58		27,189 Patients
		1.b. Distribution of various items to the public belonging to Project affected areas such as hearing aid, handicapped bicycle, spectacles etc. in collaboration with ALIMCO	2019	2019	8.55		
		1.c. Organized 90 Health Awareness camps in the project affected areas	2019	2020	35.20		
		<b>1.1. Sanitation</b>					
		1.1.a. Construction of toilets	2019	2020	0.33		
		1.1.b. Organizing of activities related to Swachhta Pakhwara	2019	2020	1.80		
		<b>2. Education and Skill Development</b>					
		2.a. Nominated of 25 Project affected youth in Govt ITIs @ appxRs. 0.50 lakh per head	2019	2021	12.22		
		2.b. Encouraging topper students of project areas/ merit scholarship for wards of PAFs taking up higher studies	2019	2020	1.92		22 Student
		2.c. skill development through empanelled agency for project affected people	2019	2020	12.00		240
		2.d. Training to local farmers belonging to Project affected areas at KVK, Buxar	2019	2020			50 farmers
		<b>3. Promoting gender equality, empowering women, setting up homes and hostels for women and orphans; setting up old age homes, day care centers and such other facilities for senior citizens and measures for reducing inequalities faced by socially and economically backward groups</b>					
		3.a. Women empowerment, Maternal health including support under existing women and child welfare schemes - Natal, Pre-Natal scheme for pregnant females belonging to Project affected area- Awareness program conducted	2019	2020	3.45		
		<b>4. Infrastructural Development &amp; community asset creation</b>					
		4.a. Supply & Installation of Indoor Badminton Court at Buxar, Bihar	2019	2020	12.50		
		4.b. Construction of community assets in project area & other areas.	2019	2020	10.96		

		<b>5. Miscellaneous and Unforeseen CSR activities</b>	2019	2020	9.08	
					<b>Total</b>	<b>165.59</b>
6	2020-21	<b>1. Health &amp; Hygiene</b>				
		1.a. Running of 02 Mobile Medical Units in & around project affected areas	2020	2021	55.32	24,331 Patients
		1.b. Organized 200 Ayurvedic Health awareness camps @ appx Rs. 0.35-Lakh per camp	2020	2021	10.32	
		1.c. Financial support to welfare projects for health institutes, other healthcare / hygiene and sanitation projects. Expenditure incurred are as follows: a. Registration of 06 nos. of ambulances (9.5 Lakhs) b. Payment towards sanitary napkin vending machine and sanitary napkin incinerator (training part only) = (1.18 Lakhs) c. Total = 9.50+1.18 = 10.68 Lakhs (Note: 1. An amount of Rs.21.70 Lakhs has been added to earlier allocated budget of Rs.93.00 Lakhs for purchase of water ATM during Panchkoshi Mela) The utilization of budget is anticipatory subjected to inherent conditions. 2. An advance of Rs.11,68,294/- has been adjusted as per taxable invoice raised by M/s HLL regarding purchase of sanitary, napkin vending machine and incinerator.	2020	2021	110.05	
		1.c. Organizing Health Camps in project affected area by M/s HelpAge India	2020	2021	0.39	
		1.d. Conversion of 06 Ambulances in to MMUs through M/s Dhanush Foundation as per instructions from O/s MoS (H&FW) and its R/M for 01 year.	2020	2021	47.50	
		1.e. - Making arrangements during Panchkoshi yatra. - For community works as directed by SDPO Office. - R&M works at M. P. High School Buxar regarding ECHO problem as per request. - Construction of Didi Ki Rasoi (Canteen) in Collectariate Campus, Buxar	2020	2021	17.66	
		<b>1.1. Sanitation</b>				
		1.1.a. Activities related to implementation of Swachhta Action Plan, Swachhta-Hi-Sewa etc.	2020	2021	0.47	
		<b>2. Education and Skill Development</b>				
		2.a. Nominated of 25 Project affected youth in Govt ITIs @ appx. Rs. 0.50 lakh per head	2020	2021	12.28	
		<b>3. Infrastructural Development &amp; community asset creation</b>				
		3.a. Construction of community assets in and around project area and other areas	2020	2021	13.61	
		<b>4. Disaster management including relief, rehabilitation and reconstruction activities</b>				

		4.a. a. Assistance to the victims of natural disasters/ calamities/ covid-19 related projects/ contributions towards State Disaster Relief Funds etc. - Expenditure incurred during COVID19 crisis wherein masks, sanitisers, beds, medicine etc were made available to the local public and hospitals	2020	2021	120.00		
		<b><u>5. Miscellaneous and administrative expenditure</u></b>	2020	2021	3.00		
							22 Student
					<b>Total</b>	<b>390.60</b>	
7	2021-22	<b><u>1. Health &amp; Hygiene</u></b>					
		1.a. Running of 02 Mobile Medical Units in & around project affected areas	2021	2022	52.19		24,285 Patients
		1.b. R&M of 06 MMUs for Dhanush Foundation for "Chikitsha Chikitshak aapke Dwar" Program	2021	2022	50.00		
		1.c. Organised Ayurvedic Health Awareness Camps in project affected area through M/s Bhartiya Dharohar	2021	2022	18.86		31,864 Patients
		<b><u>1.1. Sanitation</u></b>					
		1.1.a. Maintenance of toilets constructed under swachh vidyalaya abhiyan- funds released to BEPC, Patna	2021	2022	17.80		
		1.1.b. Organizing of activities related to Swachhta Pakhwara - beautification and cleanliness of Chatt Ghat at Bhojpur district	2021	2022	16.36		
		<b><u>2. Education and Skill Development</u></b>					
		2.a. Nominated of 25 Project affected youth in Govt ITIs @ appxRs. 0.50 lakh per head - Enrolled in ITI for payment of stipend (01 Apr to 30 June 2021)	2021	2021	1.32		
		2.b. Financial support to educational institutes- Desk, benches given to schools of project affected area	2021	2021	4.99		
		<b><u>3. Sustainable Development</u></b>					
		3.a. Installation of solar street lights in project affected areas	2021	2021	40.00		
		<b><u>4. Infrastructural Development &amp; community asset creation</u></b>					
		4.a. Different CSR Works for District Administration, Buxar "Construction of Toilets and Barrack in SDPO Office"	2021	2022	2.68		
		4.b. Repair and maintenance works as per instructions from District Administration, Buxar	2021	2022	10.97		
		4.c. water proofing of existing roof and providing & fixing window chhajja for kendriya Vidyalaya Buxar	2021	2022	6.70		
		4.d. Beautification of Mahatma Gandhi Statue, Kaml Da Pokhara, Buxar	2021	2022	1.39		
		4.e. Beautification of Victory Memorial located at Kathkali, Ahirauli, Buxar	2021	2022	4.52		
		4.f. Installation of high Mast lights at Police Line, Buxar	2021	2022	9.25		
		<b><u>5. Disaster management including relief, rehabilitation and reconstruction activities</u></b>				9.08	
		5.a. Assistance to the victims of natural disasters/calamities/contributions towards State Disaster Relief funds etc. Food packets provided during flood relief	2021	2021	17.66		

		5.b. b) Measures for COVID-19 combat like Cold Chain Equipment, COVID-19 related projects/ and other support to health institution for COVID-19 measures	2021	2022	21.30		
		<b>6. Miscellaneous and administrative expenditure</b>					
		- Billiards table procured and installed at circuit house, Buxar - health camp conducted on 16 feb 2022 - organised blood donation camp - procurement of Furniture items for Sadar Hospital, Buxar - display boards supply an installation where CSR works has been carried out	2021	2022	8.25		
		CSR Works as per direction of District Administration, Buxar	2021	2022	2.63		
					<b>Total</b>	<b>295.95</b>	
8	2022-23	<b>1. Health &amp; Hygiene</b>					
		1.a. Running of 02 Mobile Medical Units in & around project affected areas	2022	2023	51.37		34,160 Patients
		1.d. Running and maintenance of 06 MMUs by M/s Dhanush Foundation as per instructions from O/s MoS (H&FW)for 06 months	2022	2022	50.00		31,864 Patients
		1.c. Organizing Health Camps in project affected area by M/s Bhartiya Dharohar	2022	2023	28.56		
		1.d. Financial support to Sadar Hospital, Buxar for installation of Lift and 02 maternity beds	2022	2023	21.30		
		1.e. Maternal Health including support under existing women and child welfare schemes - Natal and Pre-Natal scheme	2022	2023	3.56		23 Mothers
		<b>1.1. Sanitation</b>					
		1.1.a. Release of payment for additional 90 toilets constructed under Swachh Vidyalaya Abhiyan to M.s Bihar Education Project Council			26.85		
		1.1.b. Activities related to implementation of Swachhta Action Plan, Swachhta-Hi-Sewa etc.	2022	2022	1.69		
		1.1.c. Installation of Sanitary Napkin Manufacturing Unit at Chasua.	2023	2023	30.00		
		<b>2. Education and Skill Development</b>					
		2.1. Training of 50 Farmers at KVK, Buxar- (conducted in the month of Oct 2023)	2023	2023	1.96		50 Farmer
		<b>3. Training to promote rural sports, national recognised sports, paralympic sports and olympic sports</b>					
		3.1. Distribution of sports equipment to to institutes for promotion of rural sports , national recognised sports, paralympic sports and olympic sports	2022	2023	10.00		
		<b>4. Rural development projects-Infrastructural development and Communities Assets Creation</b>					
		4.a. Construction of community assets in and around project area and other areas - Renovation of Mokhtrakhana Building at Buxar - Renovation of Badminton court at buxar - Installation of RO water purifier in Collectorate, Buxar - Estimated for Bricks kharaunja Path way work for primary school Gurauna Chausa	2022	2022	14.78		

		<b>13. Miscellaneous and administrative expenditure</b>	2022	2023	2.00		
					Total	242.07	
9	2023-24	<b>1.1 Health &amp; Hygiene</b>					
		1.a. Running of 02 Mobile Medical Units in & around project affected areas	2023	2024	80.00		24679 Patients
		1.b.Start of new MMUs- Chikitsa Chikistak Aapke Dwar	2023	2024	50.00		
		c. Financial support for health projects such as setting up of health institute, healthcare/ hygiene and sanitation projects etc.	2023	2024	30.89		
		d. Maternal health including support under exisiting women and child welfare schemes.	2023	2024	9.65		92 Mothers
		<b>1.2. Sanitation</b>					
		1.1.b. Activities related to implementation of Swachhta Action Plan, Swachhta-Hi-Sewa etc.	2023	2024	3.52		
		<b>2. Education and Skill Development</b>					
		2.1. Training of 50 Farmers at KVK, Buxar- (conducted in the month of Oct 2023)	2023	2023	0.47		
		<b>4.a. Support for construction of Gau Sadans in and around project areas as per the scheme, other welfare measures for animals etc.</b>	2023	2023	10.00		
		<b>4.b.Installation of solar lights, High Mast Lights etc.</b>	2023	2023	24.31		
		<b>4. Rural development projects-Infrastructural development and Communities Assets Creation</b>					
		4.a. Distribution of 50 coolers in District Child Protection centre, Buxar	2023	2023	1.29		
						210.13	
10	2024-25	<b>1.1 Health &amp; Hygiene</b>					
		i) Already running Mobile Medical Unit (MMU) in project area and CHQ through Helpage India & other Agencies.	2024	2025	53.45		32108 Patients
		d. Maternal health including support under exisiting women and child welfare schemes.	2024	2025	2.22		92 Mothers
		<b>1.2. Sanitation</b>					
		1.1.b. Activities related to implementation of Swachhta Action Plan, Swachhta-Hi-Sewa etc.	2024	2025	6.19		
		<b>2. Education and Skill Development</b>					
		c. Skilled development program/ start-upsin association with CIDC, HIMCON and other agencies etc	2024	2025	0.81		15 Candidates
		<b>4.b.Installation of solar lights, High Mast Lights etc.</b>	2024	2025	16.5		
		<b>10. Rural development projects-Infrastructural development and Communities Assets Creation</b>					
		a. Construction of community assets in and around project area, CHQ and other project areas	2024	2025	4.79		
		<b>13. Miscellaneous and administrative expenditure</b>					
		a. Saplings provided to District Administration Buxar	2024	2025	0.5		
		<b>TOTAL</b>				84.46	
11	2025-26	<b>1.1 Health &amp; Hygiene</b>					
		<b>a. Medical Mobile Unit</b>					

	i) Already running Mobile Medical Unit (MMU) in project area and CHQ through Helpage India & other Agencies.	2025	2026	59.318590		36605 Patients
	iii) Mmu through other agencies such as prayas Society etc. providing of ambulances to NGO/Govt. agencies/Local bodies etc.			5.03		
	<b>c. Financial support for health projects such as setting up of health institute, healthcare/ hygiene and sanitation projects etc.</b>	2025	2026	14.98		
	<b>1.2 Sanitation (SBM)</b>					
	a. Projects on water conservation, safe drinking water supply shceme etc.	2025	2025	4.07		
	b. Activities related to implementation of Swachhta Action Plan, Swachhta-Hi-Seva, cleanliness drives, distribution of cleanliness related items, sanitary pads, vending machines, awareness campaign, Solid Waste Treatment & CITI plantation drives, wall paintings, adoption of villages, providing electric solid waste mgmt vehicles etc.	2025	2025	0.33		
	<b>2. Education and Skill Development</b>					
	d. Skilled development programs to local youths in association with CIDC and other agencies etc.	2025	2026	83.77		250 participants
	<b>4. Sustainable Development</b>					
	b. Installation of solar lights, High Mast Lights etc. in project/ local areas	2025	2025	21.25		
	<b>7. Rural development projects-Infrastructural development and Communities Assets Creation</b>					
	a) Construction of community assets in and around project area, CHQ and other project areas	2024	2025	0.72		
	<b>TOTAL</b>					<b>189.47</b>
<b>Total CSR Expenditure By SJVN Foundation from 2014-15 onwards to 2025-26 (in Lakhs)</b>						<b>2805.53</b>

एसजेवीएन थर्मल (प्रा.) लिमिटेड  
**SJVN Thermal (P) Ltd.**

(एसजेवीएन की पूर्ण स्वामित्व वाली अधीनस्थ कंपनी)  
 (A wholly owned subsidiary of SJVN)  
 1320 मेगावाट बक्सर ताप विद्युत परियोजना  
 1320 MW Buxar Thermal Power Project



**PROCUREMENT & CONTRACTS DEPARTMENT**

Ref. Number: STPL/BTPP/FLYASH-LIMITED/FA-01/LOA- 808

Date: 18.02.2026

**LETTER OF AWARD**

To,

M/s RPC Projects Private Limited  
 K-179, Hanuman Nagar, P.C. Colony,  
 Kankarbagh-Patna-800020

**Kind Attention:** Mr. Rohit Munka; Mob. No. 9798446116 (Email: [rohit.munka88@gmail.com](mailto:rohit.munka88@gmail.com)  
 / [rpcprojectspvtltd@gmail.com](mailto:rpcprojectspvtltd@gmail.com) )

**Subject:** Letter of Award for "Sale of Fly Ash to Micro and Small Enterprises Engaged in Ash- Based Product Manufacturing as per Para D (4) Inserted to The MoEF & CC Notification on Ash Utilisation from Coal or Lignite Thermal Power Plants Dated 31.12.2021 Amended an 01.01.2024 (Bid Document Ref. No: FA/BTPP-01/2025)".

Dear Madam / Sir,

**1.0** This has reference to the following:

- a) Bid document (Ref. No.: FA/BTPP-01/2025) Containing:
- Invitation for Bids (IFB)
  - Instructions to Bidders (ITB)
  - General Conditions of Contract (GCC)
  - Special Conditions of Contract (SCC)
  - Annexures
  - MSTC Auction Catalogue (Auction No. MSTC/PTN/SJVN THERMAL PRIVATE LIMITED/2/CHAUSA, BUXAR/25-26/37029)
- b) Auction conducted on MSTC Portal on 28.01.2026 from 13:00 Hrs to 18:00 Hrs.
- c) Your bid submitted against the MSTC Auction mentioned above at Sr. No. a(vi) and clarifications/documents submitted through email dated 29-11-2025, 01-12-2025 & 25.12.2025.

**2.0** We are pleased to accept your above-mentioned offer and allocate you **15,000 MT** [Fifteen Thousand Metric Tonne] of Fly Ash at the rate of **INR 60 /- per MT** [Sixty Rupees only, per Metric Tonne], (Exclusive of all taxes and duties) from Buxar Thermal Power Project (BTPP), STPL, CHAUSA, Buxar, Bihar for a period of One [01] year as per terms and conditions of

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 मोहनपुरवा अखौरीपुर गोला, चौसा, बक्सर-802114 बिहार  
 दूरभाष: 06183-295275 फैक्स: 06183-223165  
 ईमेल: [pcdbtpp@sjvn.nic.in](mailto:pcdbtpp@sjvn.nic.in)

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bid documents and bid/offer submitted by you against MSTC Auction mentioned at a(vi) above.

**3.0** Terms & Conditions including Scope of Supply for this letter of award (LOA) shall be as per bid documents and other references as mentioned at Sr. No. 1.0 above.

**4.0 Scope of Fly Ash Supply:**

a. STPL would be in a position to make available allocated quantity of fly ash from its Ash Silo Chutes / other suitable locations as decided by (Engineer-in-Charge) EIC of STPL subject to availability, Force Majeure conditions and unplanned outage of Plant, etc.

b. STPL reserves the right to supply the quantity not lifted by the agencies to any other agency at the sole discretion of STPL.

c. Period: One (01) Year.

**5.0 Period of Sale/Contract Period:** Duration of sale of fly ash from BTTP will be for a period of one year from the date of commencement of first off take or till the completion of supply of Bid quantity, whichever is earlier.

**6.0 Commencement of First Off Take:** Commencement of first off take for buyer of fly ash should not exceed beyond 15 days from the date of issue of award letter unless specifically agreed by STPL.

The owner has right to suspend the delivery of Fly Ash if the advance amount is not available with the owner by the required date and such suspension of delivery shall be to the account of buyer.

**7.0 Price:** The price of Fly Ash is INR 60 /- per MT [Sixty Rupees only, per Metric Tonne], exclusive of all taxes and duties. The price of fly ash shall remain firm for the 'Period of Sale/Contract Period'.

**8.0 Working Hours**

Issue of fly ash is intended to be given on all days (on 24 x 7 basis) excluding national holidays or as per directions of EIC of STPL.

**9.0 Consideration payable by the Buyer**

Allocated quantity of fly ash for the period shall be divided into monthly quantity and amount payable based on the quantity for one month is to be deposited in advance (along with all taxes and duties as applicable) in STPL account for the quantity of fly ash to be lifted in next month.

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1320 MW Buxar Thermal Power Project



**PROCUREMENT & CONTRACTS DEPARTMENT**

**10.0 Quality of Fly Ash**

STPL would issue dry fly ash from designated 'Dry Fly Ash Collection Locations' i.e. Ash Silo Chute / other suitable locations as decided by EIC on "As Available" basis on actual weighment.

**11.0 Weighment for Invoicing**

- Fly ash shall be issued based on actual weighment.
- Unit: The lifted fly ash shall be weighed in the terms of MT (Metric Tonne).
- Weighment: Weighment of lifted fly ash shall be done at nearest authorised weighment facility of STPL. Weight so recorded shall be considered final.

**12.0 Delivery Point / Collection Location:**

- STPL would issue fly ash from the discharge chute of designated Dry Fly Ash Silos / other suitable locations as decided by EIC of STPL.
- Fly ash shall be considered to have been issued and collected as it passes into the buyer's vehicle at the loading point.

**13.0 Upward Quantity Flexibility**

If requested by the buyer, STPL may consider supply of additional quantity over & above the allocated quantity, limited to 20% of total awarded quantity within the contracted period, subject to availability and at the sole discretion of STPL at the price of the LOA for which extension is requested.

**14.0 Payment Terms & Bank Charges**

- Delivery shall be made against advance payment which shall be adjusted against delivery on daily basis.
- Buyer shall deposit an advance amount equivalent to 01 (one) Month of Annual Award Value for the allocated quantity of fly ash in the award letter, within 15 days of placement of award.
- Buyer to pay any taxes / duties extra on the applicable rates.
- The buyer to deposit the CPG @ 10 % of value of allocated quantity (or INR 1/- per MT, whichever is higher, subject to a minimum of INR 10,000/-) in addition to advance mentioned above at clause (b) before start of work.

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**PROCUREMENT & CONTRACTS DEPARTMENT**

- e. Permission to start the work will be given for first month after deposition of CPG and one-month advance payment along with the applicable taxes/ duties within 15 days of placement of award.

**Note:** It is advised that prior to submission of one-month advance, buyers are requested to contact EIC for getting details of available quantity of fly ash for the 1<sup>st</sup> and subsequent month & accordingly submit the advance.

- f. Permission for next subsequent month will be given after depositing the advance payment for that month along with the taxes / duties equivalent to 01 (One) Month of Annual Award Value for the allocated quantity of fly ash before start of that month.
- g. All bank charges shall be borne by the buyer.

**15.0 Taxes, Duties, Levies etc.**

The agency shall be liable and responsible for payment of all statutory levies in the form of GST and all other taxes and duties applicable on the Sale of fly ash. Such statutory liabilities, if any, shall be paid by the buyer extra at actual.

**16.0 Billing**

STPL will issue Exit gate pass on daily basis and invoices on daily/ weekly/ fortnightly/ monthly basis and shall deliver to the buyer(s) an invoice showing the value of the fly ash issued for each day, along with applicable GST and all other duty/ taxes/ cess etc. and shall be adjusted against the advance payment made by the agency(s) as per Clause 'Payment Terms & Bank Charges'.

**17.0 Lifting Sequence & allocation after Auction Process:**

To be finalized by EIC depending upon site specific conditions.

- a. All allocated agencies (or transportation vendors) shall be expected to follow the above schedule and mobilize accordingly.
- b. In case of non-mobilization/ inadequate mobilization, STPL may, at its discretion, allocate such quantity to alternate agency(s). Decision of EIC, STPL shall be final and binding in this regard.

**18.0 Contract Performance Guarantee (CPG) / Security Deposit (SD):** As per Clause No. 13 of ITB of bid document mentioned at Sr. No. 1.0(a) above, you are requested to furnish the required Contract Performance Guarantee (CPG) through any one of modes mentioned in Clause No. 13.1 of ITB. Failure of the Successful Bidder to comply with the requirement of submission of Performance Security Deposit shall constitute sufficient grounds for the annulment of the award and forfeiture of his Bid Security. He will also be debarred from participating in bids invited by the Project for one year.

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### 19.0 Undertaking:

As per Clause No. 6 (a) of IFB of Bid document mentioned at Sr. No. 1.0 (a) above, you are requested to submit the original "Undertaking" (Annexure-05) uploaded at MSTC portal to the Engineer-in-Charge before commencement of lifting of fly ash.

### 20.0 Affidavit for Utilization of Ash:

As per Clause No. 6(b) of IFB of Bid document mentioned at Sr. No. 1.0 (a) above, you are requested to submit an affidavit as per format of Annexure-04 of bid documents on Non – judicial stamp paper of requisite value, certifying the complete use of issued Fly ash in adherence to provisions identified vide extant MoEF&CC Notification and other applicable statutory regulations on a Half Yearly basis to the Engineer-In-Charge.

### 21.0 Authorized Person:

The buyer should depute his authorised representative to power station for co-ordination and taking delivery of Fly Ash.

A proper authorization along with Identity Proof and Vehicle Details must be presented to Engineer-in-Charge, if you want to depute an agent / transporter on your behalf.

**22.0 Safety:** You, including your sub agencies, while executing the Works, will strictly comply with the statutory requirements (including amendments thereof), as applicable, in respect of the safety of his employees, equipment and materials. You will also comply with the provisions of STPL, Safety Rules as issued from time to time.

### 23.0 Responsibility during Transportation

You will be responsible for any kind of injuries or accidents caused to their employees or labourers or any other person and STPL will not be liable in the matter.

If any action is brought against STPL for payment of damages or compensations, you shall indemnify STPL from all such action or claim from damages/ compensation. If STPL is held liable for any compensation, you shall forthwith compensate STPL, if any, such claim arose during or after the expiry of the contract period.

Your transporter(s) shall have valid license and meet the statutory compliance requirement of State Govt./ Central Govt./ Concerned Authorities for transportation of the specified goods.

Agency eligible for collecting ash shall apply for permission for the Bulkers/ covered Trucks that they propose to deploy and submit the same to EIC along with specified documents like registration, license, insurance etc, who shall arrange to verify the same and issue permission as per prevailing procedure adopted at STPL.

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Road Permits, Operator/ Driver Licenses, Insurance etc. for the deployed vehicles shall be submitted at the time of start of work (and also when new and / or additional vehicles are deployed) and thereafter as and when demanded by the EIC for verification. The vehicles shall be in fit condition for safe operation.

### 24.0 Pollution Control and Transportation of Fly Ash:

All possible measures would be taken by you to avoid pollution to the satisfaction of the plant officials. Similarly, while transporting, no spillage of fly ash would be permitted to avoid air pollution. If the process adopted by the buyer is found to be deficient, STPL retains the right to stop the fly ash supply forthwith.

25.0 Transportation including Bagging / Packing of fly ash and any other related activity is in the scope of the agency. No claim whatsoever, by the agency for transportation of fly ash will be payable.

26.0 The buyer and its transporter would be entirely responsible towards MVI / RTO for overloading of fly ash. BTPP/STPL in any case will not be held responsible for the same.

### 27.0 Compliance by Agency

Agency to comply with all reasonable controls imposed by BTPP, STPL and to cooperate with BTPP, STPL and other operating agency (s)/ contractors and shall abide by the decision of EIC. In case of any dispute the decision of EIC shall be final and binding.

### 28.0 Indemnities for Environmental Conditions

All Regulatory & Statutory compliances to be ensured by you while lifting/transportation/ Disposal/ Usage/ Sale etc.

You are requested to submit an indemnity bond as per the prescribed format (Annexure-10) of bid document to keep STPL indemnified against legal proceedings/ paying damages arising out of non-compliances by you, if any.

### 29.0 Integrity Pact:

As per Clause No. 21 of IFB of Bid document, you are requested to submit duly executed Integrity Pact as per format of Annexure-06 of bid document on non-Judicial stamp paper of Rs 100/- within 30 days from the date of issuance of this LOA.

30.0 SJVN Thermal (P) Ltd. Reserves the right to rectify / correct any typographical error inadvertently committed in this Letter of Award.

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**PROCUREMENT & CONTRACTS DEPARTMENT**

**31.0 Engineer-In-Charge (EIC):**

Head (CFMD) (Email: [cfmd.stpl@sjvn.nic.in](mailto:cfmd.stpl@sjvn.nic.in)) will be the Engineer-In-Charge for this contract.

You are requested to return a copy of this Letter of Award, duly signed, as acknowledgement of the same within Fifteen (15) days of issuance of this letter, failing which, this letter of allocation will be deemed to be accepted in full by you.

For & on behalf of SJVN Thermal (P) Ltd.

**Vivek**  
**GM (Contracts)**

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**PROCUREMENT & CONTRACTS DEPARTMENT**

Ref. Number: STPL/BTPP/FLYASH-LIMITED/FA-01/LOA- 809

Date: 18.02.2026

**LETTER OF AWARD**

To,

**M/s FLY ASH LIME SAND ASSOCIATE  
400S, BIJAYEE SADAN, BINDPURWA,  
MAHARAJGANJ, GHAZIPUR- 233002 (U.P.)**

**Kind Attention: Mr. Jitendra Singh; Mob. No. 9696037001/9839099261 (Email: falsabricks@gmail.com / Indian.jit1@gmail.com )**

**Subject: Letter of Award for "Sale of Fly Ash to Micro and Small Enterprises Engaged in Ash- Based Product Manufacturing as per Para D (4) Inserted to The MoEF & CC Notification on Ash Utilisation from Coal or Lignite Thermal Power Plants Dated 31.12.2021 Amended on 01.01.2024 (Bid Document Ref. No: FA/BTPP-01/2025)".**

Dear Madam / Sir,

**1.0** This has reference to the following:

a) Bid document (Ref. No.: FA/BTPP-01/2025) Containing:

- i) Invitation for Bids (IFB)
- ii) Instructions to Bidders (ITB)
- iii) General Conditions of Contract (GCC)
- iv) Special Conditions of Contract (SCC)
- v) Annexures
- vi) MSTC Auction Catalogue (Auction No. MSTC/PTN/SJVN THERMAL PRIVATE LIMITED/2/CHAUSA, BUXAR/25-26/37029)

b) Auction conducted on MSTC Portal on 28.01.2026 from 13:00 Hrs to 18:00 Hrs.

c) Your bid submitted against the MSTC Auction mentioned above at Sr. No. a(vi) and clarifications/documents submitted through email dated 26-11-2025, 29-11-2025, 05-12-2025 & 01-01-2026.

**2.0** We are pleased to accept your above-mentioned offer and allocate you **4,000 MT** [Four Thousand Metric Tonne] of Fly Ash at the rate of **INR 60 /- per MT** [Sixty Rupees only, per Metric Tonne], (Exclusive of all taxes and duties) from Buxar Thermal Power Project (BTPP), STPL, CHAUSA, Buxar, Bihar for a period of One [01] year as per terms and conditions of

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**PROCUREMENT & CONTRACTS DEPARTMENT**

bid documents and bid/offer submitted by you against MSTC Auction mentioned at a(vi) above.

**3.0** Terms & Conditions including Scope of Supply for this letter of award (LOA) shall be as per bid documents and other references as mentioned at Sr. No. 1.0 above.

**4.0 Scope of Fly Ash Supply:**

a. STPL would be in a position to make available allocated quantity of fly ash from its Ash Silo Chutes / other suitable locations as decided by (Engineer-in-Charge) EIC of STPL subject to availability, Force Majeure conditions and unplanned outage of Plant, etc.

b. STPL reserves the right to supply the quantity not lifted by the agencies to any other agency at the sole discretion of STPL.

c. Period: One (01) Year.

**5.0 Period of Sale/Contract Period:** Duration of sale of fly ash from BTTP will be for a period of one year from the date of commencement of first off take or till the completion of supply of Bid quantity, whichever is earlier.

**6.0 Commencement of First Off Take:** Commencement of first off take for buyer of fly ash should not exceed beyond 15 days from the date of issue of award letter unless specifically agreed by STPL.

The owner has right to suspend the delivery of Fly Ash if the advance amount is not available with the owner by the required date and such suspension of delivery shall be to the account of buyer.

**7.0 Price:** The price of Fly Ash is INR 60 /- per MT [Sixty Rupees only, per Metric Tonne], exclusive of all taxes and duties. The price of fly ash shall remain firm for the 'Period of Sale/Contract Period'.

**8.0 Working Hours**

Issue of fly ash is intended to be given on all days (on 24 x 7 basis) excluding national holidays or as per directions of EIC of STPL.

**9.0 Consideration payable by the Buyer**

Allocated quantity of fly ash for the period shall be divided into monthly quantity and amount payable based on the quantity for one month is to be deposited in advance (along with all taxes and duties as applicable) in STPL account for the quantity of fly ash to be lifted in next month.

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### 10.0 Quality of Fly Ash

STPL would issue dry fly ash from designated 'Dry Fly Ash Collection Locations' i.e. Ash Silo Chute / other suitable locations as decided by EIC on "As Available" basis on actual weighment.

### 11.0 Weighment for Invoicing

- Fly ash shall be issued based on actual weighment.
- Unit: The lifted fly ash shall be weighed in the terms of MT (Metric Tonne).
- Weighment: Weighment of lifted fly ash shall be done at nearest authorised weighment facility of STPL. Weight so recorded shall be considered final.

### 12.0 Delivery Point / Collection Location:

- STPL would issue fly ash from the discharge chute of designated Dry Fly Ash Silos / other suitable locations as decided by EIC of STPL.
- Fly ash shall be considered to have been issued and collected as it passes into the buyer's vehicle at the loading point.

### 13.0 Upward Quantity Flexibility

If requested by the buyer, STPL may consider supply of additional quantity over & above the allocated quantity, limited to 20% of total awarded quantity within the contracted period, subject to availability and at the sole discretion of STPL at the price of the LOA for which extension is requested.

### 14.0 Payment Terms & Bank Charges

- Delivery shall be made against advance payment which shall be adjusted against delivery on daily basis.
- Buyer shall deposit an advance amount equivalent to 01 (one) Month of Annual Award Value for the allocated quantity of fly ash in the award letter, within 15 days of placement of award.
- Buyer to pay any taxes / duties extra on the applicable rates.
- The buyer to deposit the CPG @ 10 % of value of allocated quantity (or INR 1/- per MT, whichever is higher, subject to a minimum of INR 10,000/-) in addition to advance mentioned above at clause (b) before start of work.

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- e. Permission to start the work will be given for first month after deposition of CPG and one-month advance payment along with the applicable taxes/ duties within 15 days of placement of award.

**Note:** It is advised that prior to submission of one-month advance, buyers are requested to contact EIC for getting details of available quantity of fly ash for the 1<sup>st</sup> and subsequent month & accordingly submit the advance.

- f. Permission for next subsequent month will be given after depositing the advance payment for that month along with the taxes / duties equivalent to 01 (One) Month of Annual Award Value for the allocated quantity of fly ash before start of that month.
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**15.0 Taxes, Duties, Levies etc.**

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To be finalized by EIC depending upon site specific conditions.

- a. All allocated agencies (or transportation vendors) shall be expected to follow the above schedule and mobilize accordingly.
- b. In case of non-mobilization/ inadequate mobilization, STPL may, at its discretion, allocate such quantity to alternate agency(s). Decision of EIC, STPL shall be final and binding in this regard.

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**19.0 Undertaking:**

As per Clause No. 6 (a) of IFB of Bid document mentioned at Sr. No. 1.0 (a) above, you are requested to submit the original "Undertaking" (Annexure-05) uploaded at MSTC portal to the Engineer-in-Charge before commencement of lifting of fly ash.

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**21.0 Authorized Person:**

The buyer should depute his authorised representative to power station for co-ordination and taking delivery of Fly Ash.

A proper authorization along with Identity Proof and Vehicle Details must be presented to Engineer-in-Charge, if you want to depute an agent / transporter on your behalf.

**22.0 Safety:** You, including your sub agencies, while executing the Works, will strictly comply with the statutory requirements (including amendments thereof), as applicable, in respect of the safety of his employees, equipment and materials. You will also comply with the provisions of STPL, Safety Rules as issued from time to time.

**23.0 Responsibility during Transportation**

You will be responsible for any kind of injuries or accidents caused to their employees or labourers or any other person and STPL will not be liable in the matter.

If any action is brought against STPL for payment of damages or compensations, you shall indemnify STPL from all such action or claim from damages/ compensation. If STPL is held liable for any compensation, you shall forthwith compensate STPL, if any, such claim arose during or after the expiry of the contract period.

Your transporter(s) shall have valid license and meet the statutory compliance requirement of State Govt./ Central Govt./ Concerned Authorities for transportation of the specified goods.

Agency eligible for collecting ash shall apply for permission for the Bulkers/ covered Trucks that they propose to deploy and submit the same to EIC along with specified documents like registration, license, insurance etc, who shall arrange to verify the same and issue permission as per prevailing procedure adopted at STPL.

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एसजेवीएन थर्मल (प्रा.) लिमिटेड

**SJVN Thermal (P) Ltd.**

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## PROCUREMENT & CONTRACTS DEPARTMENT

Road Permits, Operator/ Driver Licenses, Insurance etc. for the deployed vehicles shall be submitted at the time of start of work (and also when new and / or additional vehicles are deployed) and thereafter as and when demanded by the EIC for verification. The vehicles shall be in fit condition for safe operation.

### 24.0 Pollution Control and Transportation of Fly Ash:

All possible measures would be taken by you to avoid pollution to the satisfaction of the plant officials. Similarly, while transporting, no spillage of fly ash would be permitted to avoid air pollution. If the process adopted by the buyer is found to be deficient, STPL retains the right to stop the fly ash supply forthwith.

25.0 Transportation including Bagging / Packing of fly ash and any other related activity is in the scope of the agency. No claim whatsoever, by the agency for transportation of fly ash will be payable.

26.0 The buyer and its transporter would be entirely responsible towards MVI / RTO for overloading of fly ash. BTPP/STPL in any case will not be held responsible for the same.

### 27.0 Compliance by Agency

Agency to comply with all reasonable controls imposed by BTPP, STPL and to cooperate with BTPP, STPL and other operating agency (s)/ contractors and shall abide by the decision of EIC. In case of any dispute the decision of EIC shall be final and binding.

### 28.0 Indemnities for Environmental Conditions

All Regulatory & Statutory compliances to be ensured by you while lifting/transportation/ Disposal/ Usage/ Sale etc.

You are requested to submit an indemnity bond as per the prescribed format (Annexure-10) of bid document to keep STPL indemnified against legal proceedings/ paying damages arising out of non-compliances by you, if any.

### 29.0 Integrity Pact:

As per Clause No. 21 of IFB of Bid document, you are requested to submit duly executed Integrity Pact as per format of Annexure-06 of bid document on non-Judicial stamp paper of Rs 100/- within 30 days from the date of issuance of this LOA.

30.0 SJVN Thermal (P) Ltd. Reserves the right to rectify / correct any typographical error inadvertently committed in this Letter of Award.

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1320 MW Buxar Thermal Power Project



**PROCUREMENT & CONTRACTS DEPARTMENT**

**31.0 Engineer-In-Charge (EIC):**

Head (CFMD) (Email: [cfmd.stpl@sjvn.nic.in](mailto:cfmd.stpl@sjvn.nic.in)) will be the Engineer-In-Charge for this contract.

You are requested to return a copy of this Letter of Award, duly signed, as acknowledgement of the same within Fifteen (15) days of issuance of this letter, failing which, this letter of allocation will be deemed to be accepted in full by you.

For & on behalf of SJVN Thermal (P) Ltd.

*Vivek*  
14/2/26

**Vivek**  
GM (Contracts)

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**PROCUREMENT & CONTRACTS DEPARTMENT**

Ref. Number: STPL/BTPP/FLYASH/FA-02/LOA- 725

Date: 20.01.2026

**LETTER OF AWARD**

To,

**M/s FLY ASH LIME SAND ASSOCIATE  
400S, BIJAYEE SADAN, BINDPURWA,  
MAHARAJGANJ, GHAZIPUR- 233002 (U.P.)**

**Kind Attention: Mr. Jitendra Singh; Mob No. 9696037001 / 9839099261 (Email: falsabricks@gmail.com / indian.jit1@gmail.com )**

**Subject: Letter of Award for "Sale of Fly Ash through Open Auction at Buxar Thermal Power Station, Buxar, Bihar (Bid Document Ref. No: FA/BTPP-02/2025)".**

Dear Madam / Sir,

**1.0** This has reference to the following:

a) Bid document (Ref. No.: FA/BTPP-02/2025) Containing:

- i) Invitation for Bids (IFB)
- ii) Instructions to Bidders (ITB)
- iii) General Conditions of Contract (GCC)
- iv) Special Conditions of Contract (SCC)
- v) Annexures
- vi) MSTC Auction Catalogue (Auction No. MSTC/PTN/SJVN THERMAL PRIVATE LIMITED/3/CHAUSA, BUXAR/25-26/41211)

b) Auction conducted on MSTC Portal on 11.12.2025 from 12:00 Hrs to 17:00 Hrs.

c) Your bid submitted against the MSTC Auction mentioned above at Sr. No. a(vi).

**2.0** We are pleased to accept your above-mentioned offer and allocate you **4,000 MT** [Four Thousand Metric Tonne] of Fly Ash at the rate of **INR 120 /- per MT** [One Hundred Twenty Rupees only, per Metric Tonne], (Exclusive of all taxes and duties) from Buxar Thermal Power Project (BTPP), STPL, CHAUSA, Buxar, Bihar for a period of One [01] year as per terms and conditions of bid documents and bid/offer submitted by you against MSTC Auction mentioned at a(vi) above.

**3.0** Terms & Conditions including Scope of Supply for this letter of award (LOA) shall be as per bid documents and other references as mentioned at Sr. No. 1.0 above.

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### 4.0 Scope of Fly Ash Supply:

- STPL would issue ash from the discharge chute of designated Ash Silos at BTPP / other suitable locations as decided by (Engineer-in-Charge) EIC of STPL subject to availability, Force Majeure conditions and unplanned outage of Plant, etc.
- STPL reserves the right to supply the quantity not lifted by you to any other agency at the sole discretion of STPL.

**5.0 Period of Sale/Contract Period:** Duration of sale of fly ash from BTPP will be for a period of one year from the date of commencement of first off take or till the completion of supply of Bid quantity, whichever is earlier.

**6.0 Commencement of First Off Take:** Commencement of first off take for buyer of fly ash should not exceed beyond 15 days from the date of issue of award letter unless specifically agreed by STPL.

The owner has right to suspend the delivery of Fly Ash if the advance amount is not available with the owner by the required date and such suspension of delivery shall be to the account of buyer.

**7.0 Price:** The price of Fly Ash is INR 120 /- per MT [One Hundred Twenty Rupees only, per Metric Tonne], exclusive of all taxes and duties. The price of fly ash shall remain firm for the 'Period of Sale/Contract Period'.

### 8.0 Working Hours

Issue of fly ash is intended to be given on all days (on 24 x 7 basis) excluding national holidays or as per directions of EIC of STPL.

### 9.0 Consideration payable by the Buyer

Allocated quantity of fly ash for the period shall be divided into monthly quantity and amount payable based on the quantity for one month is to be deposited in advance (along with all taxes and duties as applicable) in STPL account for the quantity of fly ash to be lifted in next month.

### 10.0 Quality of Fly Ash

STPL would issue dry fly ash from designated 'Dry Fly Ash Collection Locations' i.e. Ash Silo Chute / other suitable locations as decided by EIC on "As Available" basis on actual weighment.

### 11.0 Weighment for Invoicing

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**PROCUREMENT & CONTRACTS DEPARTMENT**

- Fly ash shall be issued based on actual weighment.
- Unit: The lifted fly ash shall be weighed in the terms of MT (Metric Tonne).
- Weightment: Weightment of lifted fly ash shall be done at nearest authorised weightment facility of STPL. Weight so recorded shall be considered final.

**12.0 Delivery Point / Collection Location:**

- STPL would issue fly ash from the discharge chute of designated Dry Fly Ash Silos / other suitable locations as decided by EIC of STPL.
- Fly ash shall be considered to have been issued and collected as it passes into the buyer's vehicle at the loading point.

**13.0 Upward Quantity Flexibility**

If requested by the buyer, STPL may consider supply of additional quantity over & above the allocated quantity, limited to 20% of total awarded quantity within the contracted period, subject to availability and at the sole discretion of STPL at the price of the LOA for which extension is requested.

**14.0 Payment Terms & Bank Charges**

- Delivery shall be made against advance payment which shall be adjusted against delivery on daily basis.
- Buyer shall deposit an advance amount equivalent to 01 (one) Month of Annual Award Value for the allocated quantity of fly ash in the award letter, within 15 days of placement of award.
- Buyer to pay any taxes / duties extra on the applicable rates.
- The buyer to deposit the CPG @ 10 % of award value (or INR 1/- per MT, whichever is higher, subject to a minimum of INR 10,000/-) in addition to advance mentioned above at clause (b) before start of work.
- Permission to start the work will be given for first month after deposition of CPG and one-month advance payment along with the applicable taxes/ duties within 15 days of placement of award.

**Note:** It is advised that prior to submission of one-month advance, buyers are requested to contact EIC for getting details of available quantity of fly ash for the 1<sup>st</sup> and subsequent month & accordingly submit the advance.

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**PROCUREMENT & CONTRACTS DEPARTMENT**

- f. Permission for next subsequent month will be given after depositing the advance payment for that month (along with the taxes / duties equivalent to 01 (One) Month of Annual Award Value for the allocated quantity of ash) before start of that month.
- g. All bank charges shall be borne by the buyer.

**15.0 Taxes, Duties, Levies etc.**

- a) The buyer shall be liable and responsible for payment of all statutory levies in the form of GST and all other taxes and duties applicable on the Sale of fly ash. Such statutory liabilities, if any, shall be paid by the buyer extra at actual.
- b) All fly ash will be sold on Ex Silo / Ex Works basis. Regarding exports of fly ash by the buyer, it is the responsibility of the buyer to fulfill their export obligations as may be required, and any shortfall in this regard shall be to the account of the buyer only. The buyer indemnifies the owner against all such liabilities and losses on failure to fulfil the export obligations, if any.

**16.0 Billing**

STPL will issue Exit gate pass on daily basis and invoices on daily/ weekly/ fortnightly/ monthly basis and shall deliver to the buyer(s) an invoice showing the value of the fly ash issued for each day, along with applicable GST and all other duty/ taxes/ cess etc. as applicable and shall be adjusted against the advance payment made by the buyer(s) as per Clause 'Payment Terms & Bank Charges'.

**17.0 Lifting Sequence & allocation after Auction Process:**

To be finalized by EIC depending upon site specific conditions.

- a. All allocated buyers (or transportation vendors) shall be expected to follow the above schedule and mobilize accordingly.
- b. In case of non-mobilization/ inadequate mobilization, STPL may, at its discretion, allocate such quantity to alternate buyer(s). Decision of EIC, STPL shall be final and binding in this regard.

**18.0 Contract Performance Guarantee (CPG) / Security Deposit (SD):** As per Clause No. 13 of ITB of bid document mentioned at Sr. No. 1.0(a) above, you are requested to furnish the required Contract Performance Guarantee (CPG) through any one of modes mentioned in Clause No. 13.1 of ITB. Failure of the Successful Bidder to comply with the requirement of submission of Performance Security Deposit shall constitute sufficient grounds for the annulment of the award and forfeiture of his Bid Security. He will also be debarred from participating in bids invited by the Project for one year.

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## PROCUREMENT & CONTRACTS DEPARTMENT

### 19.0 Undertaking:

As per Clause No. 4 (a) of IFB of Bid document mentioned at Sr. No. 1.0 (a) above, you are requested to submit the original "Undertaking" (Annexure-05) uploaded at MSTC portal to the Engineer-in-Charge before commencement of lifting of fly ash.

### 20.0 Affidavit for Utilization of Ash:

As per Clause No. 6 of IFB of Bid document mentioned at Sr. No. 1.0 (a) above, you are requested to submit an affidavit as per format of Annexure-04 of bid documents on Non – judicial stamp paper of requisite value, certifying the complete use of issued BTTP, STPL Fly ash certifying the adherence to provisions identified vide extant MoEF&CC Notification and other applicable statutory regulations on a Half Yearly basis to the Engineer-In-Charge.

### 21.0 Authorized Person:

The buyer should depute his authorised representative to power station for co-ordination and taking delivery of Fly Ash.

A proper authorization along with Identity Proof and Vehicle Details must be presented to Engineer-in-Charge, if you want to depute an agent / transporter on your behalf.

**22.0 Safety:** You, including your sub agencies, while executing the Works, will strictly comply with the statutory requirements (including amendments thereof), as applicable, in respect of the safety of his employees, equipment and materials. You will also comply with the provisions of STPL, Safety Rules as issued from time to time.

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- Your transporter(s) shall have valid license and meet the statutory compliance requirement of State Govt./ Central Govt./ Concerned Authorities for transportation of the specified goods.
- Buyers eligible for collecting ash shall apply for permission for the Bulklers/ covered Trucks that they propose to deploy and submit the same to EIC along with specified documents like registration, license, insurance etc, who shall arrange to verify the same and issue permission as per prevailing procedure adopted at STPL.

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- f. Transportation including Bagging / Packing of fly ash and any other related activity is in the scope of the buyer. No claim whatsoever, by you for transportation of fly ash will be payable.

**24.0 Pollution Control and Transportation of Fly Ash:**

All possible measures would be taken by the buyer to avoid pollution to the satisfaction of the plant officials. Similarly, while transporting, no spillage of fly ash would be permitted to avoid air pollution. If the process adopted by the buyer is found to be deficient, STPL retains the right to stop the fly ash supply forthwith.

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**26.0** The buyer and its transporter would be entirely responsible towards MVI / RTO for overloading of fly ash. BTPP/STPL in any case will not be held responsible for the same.

**27.0 Compliance by Buyers**

Buyers to comply with all reasonable controls imposed by BTPP, STPL and to cooperate with BTPP, STPL and other operating agency (s)/ contractors and shall abide by the decision of EIC. In case of any dispute the decision of EIC shall be final and binding.

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All Regulatory & Statutory compliances to be ensured by you while lifting/transportation/ Disposal/ Usage/ Sale etc.

You are requested to submit an indemnity bond as per the prescribed format (Annexure-10) of bid document to keep STPL indemnified against legal proceedings/ paying damages arising out of non-compliances by you, if any.

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As per Clause No. 21 of IFB of Bid document, you are requested to submit duly executed Integrity Pact as per format of Annexure-06 of bid document on non-Judicial stamp paper of Rs 100/- within 30 days from the date of issuance of this LOA.

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एसजेवीएन थर्मल (प्रा.) लिमिटेड

**SJVN Thermal (P) Ltd.**

(एसजेवीएन की पूर्ण स्वामित्व वाली अधीनस्थ कंपनी)  
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1320 MW Buxar Thermal Power Project



**PROCUREMENT & CONTRACTS DEPARTMENT**

**30.0** SJVN Thermal (P) Ltd. Reserves the right to rectify / correct any typographical error inadvertently committed in this Letter of Award.

**31.0 Engineer-In-Charge (EIC):**

Sh. Sandeep Kumar, Head (CFMD) (Email: [cfmd.stpl@sjvn.nic.in](mailto:cfmd.stpl@sjvn.nic.in)) will be the Engineer-In-Charge for this contract.

You are requested to return a copy of this Letter of Award, duly signed, as acknowledgement of the same within Fifteen (15) days of issuance of this letter, failing which, this letter of allocation will be deemed to be accepted in full by you.

For & on behalf of SJVN Thermal (P) Ltd.

  
20/01/16 Vivek  
GM (Contracts)

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**PROCUREMENT & CONTRACTS DEPARTMENT**

Ref. Number: STPL/BTPP/FLYASH/FA-02/LOA-726

Date: 20.01.2026

**LETTER OF AWARD**

To,

M/s JK Cement Limited  
Prism Tower, Ninaniya Estate,  
Gwal Pahari, Gurugram-122102  
Haryana India,

**Kind Attention:** Mr. Anil Badgotri - President Commercial - Mob No. 7241115879  
([Anil.badgotri@jkcement.com](mailto:Anil.badgotri@jkcement.com))

**Subject:** Letter of Award for "Sale of Fly Ash through Open Auction at Buxar Thermal Power Station, Buxar, Bihar (Bid Document Ref. No: FA/BTPP-02/2025)".

Dear Madam / Sir,

1.0 This has reference to the following:

a) Bid document (Ref. No.: FA/BTPP-02/2025) Containing:

- i) Invitation for Bids (IFB)
- ii) Instructions to Bidders (ITB)
- iii) General Conditions of Contract (GCC)
- iv) Special Conditions of Contract (SCC)
- v) Annexures
- vi) MSTC Auction Catalogue (Auction No. MSTC/PTN/SJVN THERMAL PRIVATE LIMITED/3/CHAUSA, BUXAR/25-26/41211)

b) Auction conducted on MSTC Portal on 11.12.2025 from 12:00 Hrs to 17:00 Hrs.

c) Your bid submitted against the MSTC Auction mentioned above at Sr. No. a(vi) and clarifications/documents submitted through email dated 01.12.2025 & 03.12.2025.

2.0 We are pleased to accept your above-mentioned offer and allocate you **250,000 MT** [Two Lakh Fifty Thousand Metric Tonne] of Fly Ash at the rate of **INR 120 /- per MT** [One Hundred Twenty Rupees only, per Metric Tonne], (Exclusive of all taxes and duties) from Buxar Thermal Power Project (BTPP), STPL, CHAUSA, Buxar, Bihar for a period of One [01] year as per terms and conditions of bid documents and bid/offer submitted by you against MSTC Auction mentioned at a(vi) above.

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**PROCUREMENT & CONTRACTS DEPARTMENT**

**3.0** Terms & Conditions including Scope of Supply for this letter of award (LOA) shall be as per bid documents and other references as mentioned at Sr. No. 1.0 above.

**4.0 Scope of Fly Ash Supply:**

- a) STPL would issue ash from the discharge chute of designated Ash Silos at BTTP / other suitable locations as decided by (Engineer-in-Charge) EIC of STPL subject to availability, Force Majeure conditions and unplanned outage of Plant, etc.
- b) STPL reserves the right to supply the quantity not lifted by you to any other agency at the sole discretion of STPL.

**5.0 Period of Sale/Contract Period:** Duration of sale of fly ash from BTTP will be for a period of one year from the date of commencement of first off take or till the completion of supply of Bid quantity, whichever is earlier.

**6.0 Commencement of First Off Take:** Commencement of first off take for buyer of fly ash should not exceed beyond 15 days from the date of issue of award letter unless specifically agreed by STPL.

The owner has right to suspend the delivery of Fly Ash if the advance amount is not available with the owner by the required date and such suspension of delivery shall be to the account of buyer.

**7.0 Price:** The price of Fly Ash is INR 120 /- per MT [One Hundred Twenty Rupees only, per Metric Tonne], exclusive of all taxes and duties. The price of fly ash shall remain firm for the 'Period of Sale/Contract Period'.

**8.0 Working Hours**

Issue of fly ash is intended to be given on all days (on 24 x 7 basis) excluding national holidays or as per directions of EIC of STPL.

**9.0 Consideration payable by the Buyer**

Allocated quantity of fly ash for the period shall be divided into monthly quantity and amount payable based on the quantity for one month is to be deposited in advance (along with all taxes and duties as applicable) in STPL account for the quantity of fly ash to be lifted in next month.

**10.0 Quality of Fly Ash**

STPL would issue dry fly ash from designated 'Dry Fly Ash Collection Locations' i.e. Ash Silo Chute / other suitable locations as decided by EIC on "As Available" basis on actual weightment.

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## PROCUREMENT & CONTRACTS DEPARTMENT

### 11.0 Weighment for Invoicing

- Fly ash shall be issued based on actual weighment.
- Unit: The lifted fly ash shall be weighed in the terms of MT (Metric Tonne).
- Weighment: Weighment of lifted fly ash shall be done at nearest authorised weighment facility of STPL. Weight so recorded shall be considered final.

### 12.0 Delivery Point / Collection Location:

- STPL would issue fly ash from the discharge chute of designated Dry Fly Ash Silos / other suitable locations as decided by EIC of STPL.
- Fly ash shall be considered to have been issued and collected as it passes into the buyer's vehicle at the loading point.

### 13.0 Upward Quantity Flexibility

If requested by the buyer, STPL may consider supply of additional quantity over & above the allocated quantity, limited to 20% of total awarded quantity within the contracted period, subject to availability and at the sole discretion of STPL at the price of the LOA for which extension is requested.

### 14.0 Payment Terms & Bank Charges

- Delivery shall be made against advance payment which shall be adjusted against delivery on daily basis.
- Buyer shall deposit an advance amount equivalent to 01 (one) Month of Annual Award Value for the allocated quantity of fly ash in the award letter, within 15 days of placement of award.
- Buyer to pay any taxes / duties extra on the applicable rates.
- The buyer to deposit the CPG @ 10 % of award value (or INR 1/- per MT, whichever is higher, subject to a minimum of INR 10,000/-) in addition to advance mentioned above at clause (b) before start of work.
- Permission to start the work will be given for first month after deposition of CPG and one-month advance payment along with the applicable taxes/ duties within 15 days of placement of award.

**Note:** It is advised that prior to submission of one-month advance, buyers are requested to contact EIC for getting details of available quantity of fly ash for the 1<sup>st</sup> and subsequent month & accordingly submit the advance.

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**PROCUREMENT & CONTRACTS DEPARTMENT**

- f. Permission for next subsequent month will be given after depositing the advance payment for that month (along with the taxes / duties equivalent to 01 (One) Month of Annual Award Value for the allocated quantity of ash) before start of that month.
- g. All bank charges shall be borne by the buyer.

**15.0 Taxes, Duties, Levies etc.**

- a) The buyer shall be liable and responsible for payment of all statutory levies in the form of GST and all other taxes and duties applicable on the Sale of fly ash. Such statutory liabilities, if any, shall be paid by the buyer extra at actual.
- b) All fly ash will be sold on Ex Silo / Ex Works basis. Regarding exports of fly ash by the buyer, it is the responsibility of the buyer to fulfill their export obligations as may be required, and any shortfall in this regard shall be to the account of the buyer only. The buyer indemnifies the owner against all such liabilities and losses on failure to fulfil the export obligations, if any.

**16.0 Billing**

STPL will issue Exit gate pass on daily basis and invoices on daily/ weekly/ fortnightly/ monthly basis and shall deliver to the buyer(s) an invoice showing the value of the fly ash issued for each day, along with applicable GST and all other duty/ taxes/ cess etc. as applicable and shall be adjusted against the advance payment made by the buyer(s) as per Clause 'Payment Terms & Bank Charges'.

**17.0 Lifting Sequence & allocation after Auction Process:**

To be finalized by EIC depending upon site specific conditions.

- a. All allocated buyers (or transportation vendors) shall be expected to follow the above schedule and mobilize accordingly.
- b. In case of non-mobilization/ inadequate mobilization, STPL may, at its discretion, allocate such quantity to alternate buyer(s). Decision of EIC, STPL shall be final and binding in this regard.

- 18.0 Contract Performance Guarantee (CPG) / Security Deposit (SD):** As per Clause No. 13 of ITB of bid document mentioned at Sr. No. 1.0(a) above, you are requested to furnish the required Contract Performance Guarantee (CPG) through any one of modes mentioned in Clause No. 13.1 of ITB. Failure of the Successful Bidder to comply with the requirement of submission of Performance Security Deposit shall constitute sufficient grounds for the annulment of the award and forfeiture of his Bid Security. He will also be debarred from participating in bids invited by the Project for one year.

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**PROCUREMENT & CONTRACTS DEPARTMENT**

**19.0 Undertaking:**

As per Clause No. 4 (a) of IFB of Bid document mentioned at Sr. No. 1.0 (a) above, you are requested to submit the original "Undertaking" (Annexure-05) uploaded at MSTC portal to the Engineer-in-Charge before commencement of lifting of fly ash.

**20.0 Affidavit for Utilization of Ash:**

As per Clause No. 6 of IFB of Bid document mentioned at Sr. No. 1.0 (a) above, you are requested to submit an affidavit as per format of Annexure-04 of bid documents on Non – judicial stamp paper of requisite value, certifying the complete use of issued BTPP, STPL Fly ash certifying the adherence to provisions identified vide extant MoEF&CC Notification and other applicable statutory regulations on a Half Yearly basis to the Engineer-In-Charge.

**21.0 Authorized Person:**

The buyer should depute his authorised representative to power station for co-ordination and taking delivery of Fly Ash.

A proper authorization along with Identity Proof and Vehicle Details must be presented to Engineer-in-Charge, if you want to depute an agent / transporter on your behalf.

**22.0 Safety:** You, including your sub agencies, while executing the Works, will strictly comply with the statutory requirements (including amendments thereof), as applicable, in respect of the safety of his employees, equipment and materials. You will also comply with the provisions of STPL, Safety Rules as issued from time to time.

**23.0 Responsibility during Transportation**

- You will be responsible for any kind of injuries or accidents caused to their employees or labourers or any other person and STPL will not be liable in the matter.
- If any action is brought against STPL for payment of damages or compensations, you shall indemnify STPL from all such action or claim from damages/ compensation. If STPL is held liable for any compensation, you shall forthwith compensate STPL, if any, such claim arose during or after the expiry of the contract period.
- Your transporter(s) shall have valid license and meet the statutory compliance requirement of State Govt./ Central Govt./ Concerned Authorities for transportation of the specified goods.
- Buyers eligible for collecting ash shall apply for permission for the Bulklers/ covered Trucks that they propose to deploy and submit the same to EIC along with specified documents like registration, license, insurance etc, who shall arrange to verify the same and issue permission as per prevailing procedure adopted at STPL.

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- e. Road Permits, Operator/ Driver Licenses, Insurance etc. for the deployed vehicles shall be submitted at the time of start of work (and also when new and / or additional vehicles are deployed) and thereafter as and when demanded by the EIC for verification. The vehicles shall be in fit condition for safe operation.
- f. Transportation including Bagging / Packing of fly ash and any other related activity is in the scope of the buyer. No claim whatsoever, by you for transportation of fly ash will be payable.

**24.0 Pollution Control and Transportation of Fly Ash:**

All possible measures would be taken by the buyer to avoid pollution to the satisfaction of the plant officials. Similarly, while transporting, no spillage of fly ash would be permitted to avoid air pollution. If the process adopted by the buyer is found to be deficient, STPL retains the right to stop the fly ash supply forthwith.

**25.0** Transportation including Bagging / Packing of fly ash and any other related activity is in the scope of the bidder. No claim whatsoever, by the bidder for transportation of fly ash will be payable.

**26.0** The buyer and its transporter would be entirely responsible towards MVI / RTO for overloading of fly ash. BTPP/STPL in any case will not be held responsible for the same.

**27.0 Compliance by Buyers**

Buyers to comply with all reasonable controls imposed by BTPP, STPL and to cooperate with BTPP, STPL and other operating agency (s)/ contractors and shall abide by the decision of EIC. In case of any dispute the decision of EIC shall be final and binding.

**28.0 Indemnities for Environmental Conditions**

All Regulatory & Statutory compliances to be ensured by you while lifting/transportation/ Disposal/ Usage/ Sale etc.

You are requested to submit an indemnity bond as per the prescribed format (Annexure-10) of bid document to keep STPL indemnified against legal proceedings/ paying damages arising out of non-compliances by you, if any.

**29.0 Integrity Pact:**

As per Clause No. 21 of IFB of Bid document, you are requested to submit duly executed Integrity Pact as per format of Annexure-06 of bid document on non-Judicial stamp paper of Rs 100/- within 30 days from the date of issuance of this LOA.

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**PROCUREMENT & CONTRACTS DEPARTMENT**

**30.0** SJVN Thermal (P) Ltd. Reserves the right to rectify / correct any typographical error inadvertently committed in this Letter of Award.

**31.0 Engineer-In-Charge (EIC):**

Sh. Sandeep Kumar, Head (CFMD) (Email: [cfmd.stpl@sjvn.nic.in](mailto:cfmd.stpl@sjvn.nic.in)) will be the Engineer-In-Charge for this contract.

You are requested to return a copy of this Letter of Award, duly signed, as acknowledgement of the same within Fifteen (15) days of issuance of this letter, failing which, this letter of allocation will be deemed to be accepted in full by you.

**For & on behalf of SJVN Thermal (P) Ltd.**

*Vivek*  
20/01/26  
**Vivek**  
GM (Contracts)

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**PROCUREMENT & CONTRACTS DEPARTMENT**

Ref. Number: STPL/BTPP/FLYASH/FA-02/LOA- 727

Date: 2001.2026

**LETTER OF AWARD**

To,

**M/s KANODIA INFRATECH LIMITED**  
Plot No. A-21, Sector-16, Noida,  
Gautam Buddha Nagar- 201301 (U.P.)

**Kind Attention: Mr. Rahul Ranajan, Manager; Mob No. 9599191014 / 7533909110 (Email: rahulranjan@kanodiagroup.co.in / manojkedia085@gmail.com )**

**Subject: Letter of Award for "Sale of Fly Ash through Open Auction at Buxar Thermal Power Station, Buxar, Bihar (Bid Document Ref. No: FA/BTPP-02/2025)".**

Dear Madam / Sir,

**1.0** This has reference to the following:

- a) Bid document (Ref. No.: FA/BTPP-02/2025) Containing:
  - i) Invitation for Bids (IFB)
  - ii) Instructions to Bidders (ITB)
  - iii) General Conditions of Contract (GCC)
  - iv) Special Conditions of Contract (SCC)
  - v) Annexures
  - vi) MSTC Auction Catalogue (Auction No. MSTC/PTN/SJVN THEMAL PRIVATE LIMITED/3/CHAUSA, BUXAR/25-26/41211)
- b) Auction conducted on MSTC Portal on 11.12.2025 from 12:00 Hrs to 17:00 Hrs.
- c) Your bid submitted against the MSTC Auction mentioned above at Sr. No. a(vi) and clarifications/documents submitted through email dated 29.11.2025.

**2.0** We are pleased to accept your above-mentioned offer and allocate **15,000 MT** [Fifteen Thousand Metric Tonne] of Fly Ash at the rate of **INR 120 /- per MT** [One Hundred Twenty Rupees only, per Metric Tonne], (Exclusive of all taxes and duties) from Buxar Thermal Power Project (BTPP), STPL, CHAUSA, Buxar, Bihar for a period of One [01] year as per terms and conditions of bid documents and bid/offer submitted by you against MSTC Auction mentioned at a(vi) above.

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एसजेवीएन थर्मल (प्रा.) लिमिटेड

**SJVN Thermal (P) Ltd.**

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1320 MW Buxar Thermal Power Project



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**3.0** Terms & Conditions including Scope of Supply for this letter of award (LOA) shall be as per bid documents and other references as mentioned at Sr. No. 1.0 above.

### **4.0 Scope of Fly Ash Supply:**

- STPL would issue ash from the discharge chute of designated Ash Silos at BTPP / other suitable locations as decided by (Engineer-in-Charge) EIC of STPL subject to availability, Force Majeure conditions and unplanned outage of Plant, etc.
- STPL reserves the right to supply the quantity not lifted by you to any other agency at the sole discretion of STPL.

**5.0 Period of Sale/Contract Period:** Duration of sale of fly ash from BTPP will be for a period of one year from the date of commencement of first off take or till the completion of supply of Bid quantity, whichever is earlier.

**6.0 Commencement of First Off Take:** Commencement of first off take for buyer of fly ash should not exceed beyond 15 days from the date of issue of award letter unless specifically agreed by STPL.

The owner has right to suspend the delivery of Fly Ash if the advance amount is not available with the owner by the required date and such suspension of delivery shall be to the account of buyer.

**7.0 Price:** The price of Fly Ash is INR 120 /- per MT [One Hundred Twenty Rupees only, per Metric Tonne], exclusive of all taxes and duties. The price of fly ash shall remain firm for the 'Period of Sale/Contract Period'.

### **8.0 Working Hours**

Issue of fly ash is intended to be given on all days (on 24 x 7 basis) excluding national holidays or as per directions of EIC of STPL.

### **9.0 Consideration payable by the Buyer**

Allocated quantity of fly ash for the period shall be divided into monthly quantity and amount payable based on the quantity for one month is to be deposited in advance (along with all taxes and duties as applicable) in STPL account for the quantity of fly ash to be lifted in next month.

### **10.0 Quality of Fly Ash**

STPL would issue dry fly ash from designated 'Dry Fly Ash Collection Locations' i.e. Ash Silo Chute / other suitable locations as decided by EIC on "As Available" basis on actual weighment.

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**11.0 Weighment for Invoicing**

- Fly ash shall be issued based on actual weighment.
- Unit: The lifted fly ash shall be weighed in the terms of MT (Metric Tonne).
- Weighment: Weighment of lifted fly ash shall be done at nearest authorised weighment facility of STPL. Weight so recorded shall be considered final.

**12.0 Delivery Point / Collection Location:**

- STPL would issue fly ash from the discharge chute of designated Dry Fly Ash Silos / other suitable locations as decided by EIC of STPL.
- Fly ash shall be considered to have been issued and collected as it passes into the buyer's vehicle at the loading point.

**13.0 Upward Quantity Flexibility**

If requested by the buyer, STPL may consider supply of additional quantity over & above the allocated quantity, limited to 20% of total awarded quantity within the contracted period, subject to availability and at the sole discretion of STPL at the price of the LOA for which extension is requested.

**14.0 Payment Terms & Bank Charges**

- Delivery shall be made against advance payment which shall be adjusted against delivery on daily basis.
- Buyer shall deposit an advance amount equivalent to 01 (one) Month of Annual Award Value for the allocated quantity of fly ash in the award letter, within 15 days of placement of award.
- Buyer to pay any taxes / duties extra on the applicable rates.
- The buyer to deposit the CPG @ 10 % of award value (or INR 1/- per MT, whichever is higher, subject to a minimum of INR 10,000/-) in addition to advance mentioned above at clause (b) before start of work.
- Permission to start the work will be given for first month after deposition of CPG and one-month advance payment along with the applicable taxes/ duties within 15 days of placement of award.

**Note:** It is advised that prior to submission of one-month advance, buyers are requested to contact EIC for getting details of available quantity of fly ash for the 1<sup>st</sup> and subsequent month & accordingly submit the advance.

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- f. Permission for next subsequent month will be given after depositing the advance payment for that month (along with the taxes / duties equivalent to 01 (One) Month of Annual Award Value for the allocated quantity of ash) before start of that month.
- g. All bank charges shall be borne by the buyer.

**15.0 Taxes, Duties, Levies etc.**

- a) The buyer shall be liable and responsible for payment of all statutory levies in the form of GST and all other taxes and duties applicable on the Sale of fly ash. Such statutory liabilities, if any, shall be paid by the buyer extra at actual.
- b) All fly ash will be sold on Ex Silo / Ex Works basis. Regarding exports of fly ash by the buyer, it is the responsibility of the buyer to fulfill their export obligations as may be required, and any shortfall in this regard shall be to the account of the buyer only. The buyer indemnifies the owner against all such liabilities and losses on failure to fulfil the export obligations, if any.

**16.0 Billing**

STPL will issue Exit gate pass on daily basis and invoices on daily/ weekly/ fortnightly/ monthly basis and shall deliver to the buyer(s) an invoice showing the value of the fly ash issued for each day, along with applicable GST and all other duty/ taxes/ cess etc. as applicable and shall be adjusted against the advance payment made by the buyer(s) as per Clause 'Payment Terms & Bank Charges'.

**17.0 Lifting Sequence & allocation after Auction Process:**

To be finalized by EIC depending upon site specific conditions.

- a. All allocated buyers (or transportation vendors) shall be expected to follow the above schedule and mobilize accordingly.
- b. In case of non-mobilization/ inadequate mobilization, STPL may, at its discretion, allocate such quantity to alternate buyer(s). Decision of EIC, STPL shall be final and binding in this regard.

**18.0 Contract Performance Guarantee (CPG) / Security Deposit (SD):** As per Clause No. 13 of ITB of bid document mentioned at Sr. No. 1.0(a) above, you are requested to furnish the required Contract Performance Guarantee (CPG) through any one of modes mentioned in Clause No. 13.1 of ITB. Failure of the Successful Bidder to comply with the requirement of submission of Performance Security Deposit shall constitute sufficient grounds for the annulment of the award and forfeiture of his Bid Security. He will also be debarred from participating in bids invited by the Project for one year.

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## PROCUREMENT & CONTRACTS DEPARTMENT

### 19.0 Undertaking:

As per Clause No. 4 (a) of IFB of Bid document mentioned at Sr. No. 1.0 (a) above, you are requested to submit the original "Undertaking" (Annexure-05) uploaded at MSTC portal to the Engineer-in-Charge before commencement of lifting of fly ash.

### 20.0 Affidavit for Utilization of Ash:

As per Clause No. 6 of IFB of Bid document mentioned at Sr. No. 1.0 (a) above, you are requested to submit an affidavit as per format of Annexure-04 of bid documents on Non – judicial stamp paper of requisite value, certifying the complete use of issued BTTP, STPL Fly ash certifying the adherence to provisions identified vide extant MoEF&CC Notification and other applicable statutory regulations on a Half Yearly basis to the Engineer-In-Charge.

### 21.0 Authorized Person:

The buyer should depute his authorised representative to power station for co-ordination and taking delivery of Fly Ash.

A proper authorization along with Identity Proof and Vehicle Details must be presented to Engineer-in-Charge, if you want to depute an agent / transporter on your behalf.

**22.0 Safety:** You, including your sub agencies, while executing the Works, will strictly comply with the statutory requirements (including amendments thereof), as applicable, in respect of the safety of his employees, equipment and materials. You will also comply with the provisions of STPL, Safety Rules as issued from time to time.

### 23.0 Responsibility during Transportation

- You will be responsible for any kind of injuries or accidents caused to their employees or labourers or any other person and STPL will not be liable in the matter.
- If any action is brought against STPL for payment of damages or compensations, you shall indemnify STPL from all such action or claim from damages/ compensation. If STPL is held liable for any compensation, you shall forthwith compensate STPL, if any, such claim arose during or after the expiry of the contract period.
- Your transporter(s) shall have valid license and meet the statutory compliance requirement of State Govt./ Central Govt./ Concerned Authorities for transportation of the specified goods.
- Buyers eligible for collecting ash shall apply for permission for the Bulklers/ covered Trucks that they propose to deploy and submit the same to EIC along with specified documents like registration, license, insurance etc, who shall arrange to verify the same and issue permission as per prevailing procedure adopted at STPL.

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**PROCUREMENT & CONTRACTS DEPARTMENT**

- e. Road Permits, Operator/ Driver Licenses, Insurance etc. for the deployed vehicles shall be submitted at the time of start of work (and also when new and / or additional vehicles are deployed) and thereafter as and when demanded by the EIC for verification. The vehicles shall be in fit condition for safe operation.
- f. Transportation including Bagging / Packing of fly ash and any other related activity is in the scope of the buyer. No claim whatsoever, by you for transportation of fly ash will be payable.

**24.0 Pollution Control and Transportation of Fly Ash:**

All possible measures would be taken by the buyer to avoid pollution to the satisfaction of the plant officials. Similarly, while transporting, no spillage of fly ash would be permitted to avoid air pollution. If the process adopted by the buyer is found to be deficient, STPL retains the right to stop the fly ash supply forthwith.

**25.0** Transportation including Bagging / Packing of fly ash and any other related activity is in the scope of the bidder. No claim whatsoever, by the bidder for transportation of fly ash will be payable.

**26.0** The buyer and its transporter would be entirely responsible towards MVI / RTO for overloading of fly ash. BTPP/STPL in any case will not be held responsible for the same.

**27.0 Compliance by Buyers**

Buyers to comply with all reasonable controls imposed by BTPP, STPL and to cooperate with BTPP, STPL and other operating agency (s)/ contractors and shall abide by the decision of EIC. In case of any dispute the decision of EIC shall be final and binding.

**28.0 Indemnities for Environmental Conditions**

All Regulatory & Statutory compliances to be ensured by you while lifting/transportation/ Disposal/ Usage/ Sale etc.

You are requested to submit an indemnity bond as per the prescribed format (Annexure-10) of bid document to keep STPL indemnified against legal proceedings/ paying damages arising out of non-compliances by you, if any.

**29.0 Integrity Pact:**

As per Clause No. 21 of IFB of Bid document, you are requested to submit duly executed Integrity Pact as per format of Annexure-06 of bid document on non-Judicial stamp paper of Rs 100/- within 30 days from the date of issuance of this LOA.

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**30.0** SJVN Thermal (P) Ltd. Reserves the right to rectify / correct any typographical error inadvertently committed in this Letter of Award.

**31.0 Engineer-In-Charge (EIC):**

Sh. Sandeep Kumar, Head (CFMD) (Email: [cfmd.stpl@sjvn.nic.in](mailto:cfmd.stpl@sjvn.nic.in)) will be the Engineer-In-Charge for this contract.

You are requested to return a copy of this Letter of Award, duly signed, as acknowledgement of the same within Fifteen (15) days of issuance of this letter, failing which, this letter of allocation will be deemed to be accepted in full by you.

For & on behalf of SJVN Thermal (P) Ltd.

  
20/11/26  
Vivek  
GM (Contracts)

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**PROCUREMENT & CONTRACTS DEPARTMENT**

Ref. Number: STPL/BTPP/FLYASH/FA-02/LOA- 728

Date: 20.01.2026

**LETTER OF AWARD**

To,

M/s Lalpari Transport Co.  
Maharana Pratap Nagar,  
Ara, Bhojpur, Bihar- 802301

**Kind Attention:** Mr. Sanjay Kumar; Mob. No. 8800939486 (Email: [lalparitransport@hotmail.com](mailto:lalparitransport@hotmail.com) / [sanjayara78@gmail.com](mailto:sanjayara78@gmail.com))

**Subject:** Letter of Award for "Sale of Fly Ash through Open Auction at Buxar Thermal Power Station, Buxar, Bihar (Bid Document Ref. No: FA/BTPP-02/2025)".

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2.0 We are pleased to accept your above-mentioned offer and allocate you **33,000 MT** [Thirty Three Thousand Metric Tonne] of Fly Ash at the rate of **INR 120 /- per MT** [One Hundred Twenty Rupees only, per Metric Tonne], (Exclusive of all taxes and duties) from Buxar Thermal Power Project (BTPP), STPL, CHAUSA, Buxar, Bihar for a period of One [01] year as per terms and conditions of bid documents and bid/offer submitted by you against MSTC Auction mentioned at a(vi) above.

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**6.0 Commencement of First Off Take:** Commencement of first off take for buyer of fly ash should not exceed beyond 15 days from the date of issue of award letter unless specifically agreed by STPL.

The owner has right to suspend the delivery of Fly Ash if the advance amount is not available with the owner by the required date and such suspension of delivery shall be to the account of buyer.

**7.0 Price:** The price of Fly Ash is INR 120 /- per MT [One Hundred Twenty Rupees only, per Metric Tonne], exclusive of all taxes and duties. The price of fly ash shall remain firm for the 'Period of Sale/Contract Period'.

**8.0 Working Hours**

Issue of fly ash is intended to be given on all days (on 24 x 7 basis) excluding national holidays or as per directions of EIC of STPL.

**9.0 Consideration payable by the Buyer**

Allocated quantity of fly ash for the period shall be divided into monthly quantity and amount payable based on the quantity for one month is to be deposited in advance (along with all taxes and duties as applicable) in STPL account for the quantity of fly ash to be lifted in next month.

**10.0 Quality of Fly Ash**

STPL would issue dry fly ash from designated 'Dry Fly Ash Collection Locations' i.e. Ash Silo Chute / other suitable locations as decided by EIC on "As Available" basis on actual weighment.

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### 11.0 Weighment for Invoicing

- Fly ash shall be issued based on actual weighment.
- Unit: The lifted fly ash shall be weighed in the terms of MT (Metric Tonne).
- Weighment: Weighment of lifted fly ash shall be done at nearest authorised weighment facility of STPL. Weight so recorded shall be considered final.

### 12.0 Delivery Point / Collection Location:

- STPL would issue fly ash from the discharge chute of designated Dry Fly Ash Silos / other suitable locations as decided by EIC of STPL.
- Fly ash shall be considered to have been issued and collected as it passes into the buyer's vehicle at the loading point.

### 13.0 Upward Quantity Flexibility

If requested by the buyer, STPL may consider supply of additional quantity over & above the allocated quantity, limited to 20% of total awarded quantity within the contracted period, subject to availability and at the sole discretion of STPL at the price of the LOA for which extension is requested.

### 14.0 Payment Terms & Bank Charges

- Delivery shall be made against advance payment which shall be adjusted against delivery on daily basis.
- Buyer shall deposit an advance amount equivalent to 01 (one) Month of Annual Award Value for the allocated quantity of fly ash in the award letter, within 15 days of placement of award.
- Buyer to pay any taxes / duties extra on the applicable rates.
- The buyer to deposit the CPG @ 10 % of award value (or INR 1/- per MT, whichever is higher, subject to a minimum of INR 10,000/-) in addition to advance mentioned above at clause (b) before start of work.
- Permission to start the work will be given for first month after deposition of CPG and one-month advance payment along with the applicable taxes/ duties within 15 days of placement of award.

**Note:** It is advised that prior to submission of one-month advance, buyers are requested to contact EIC for getting details of available quantity of fly ash for the 1<sup>st</sup> and subsequent month & accordingly submit the advance.

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**PROCUREMENT & CONTRACTS DEPARTMENT**

- f. Permission for next subsequent month will be given after depositing the advance payment for that month (along with the taxes / duties equivalent to 01 (One) Month of Annual Award Value for the allocated quantity of ash) before start of that month.
- g. All bank charges shall be borne by the buyer.

**15.0 Taxes, Duties, Levies etc.**

- a) The buyer shall be liable and responsible for payment of all statutory levies in the form of GST and all other taxes and duties applicable on the Sale of fly ash. Such statutory liabilities, if any, shall be paid by the buyer extra at actual.
- b) All fly ash will be sold on Ex Silo / Ex Works basis. Regarding exports of fly ash by the buyer, it is the responsibility of the buyer to fulfill their export obligations as may be required, and any shortfall in this regard shall be to the account of the buyer only. The buyer indemnifies the owner against all such liabilities and losses on failure to fulfil the export obligations, if any.

**16.0 Billing**

STPL will issue Exit gate pass on daily basis and invoices on daily/ weekly/ fortnightly/ monthly basis and shall deliver to the buyer(s) an invoice showing the value of the fly ash issued for each day, along with applicable GST and all other duty/ taxes/ cess etc. as applicable and shall be adjusted against the advance payment made by the buyer(s) as per Clause 'Payment Terms & Bank Charges'.

**17.0 Lifting Sequence & allocation after Auction Process:**

To be finalized by EIC depending upon site specific conditions.

- a. All allocated buyers (or transportation vendors) shall be expected to follow the above schedule and mobilize accordingly.
- b. In case of non-mobilization/ inadequate mobilization, STPL may, at its discretion, allocate such quantity to alternate buyer(s). Decision of EIC, STPL shall be final and binding in this regard.

- 18.0 Contract Performance Guarantee (CPG) / Security Deposit (SD):** As per Clause No. 13 of ITB of bid document mentioned at Sr. No. 1.0(a) above, you are requested to furnish the required Contract Performance Guarantee (CPG) through any one of modes mentioned in Clause No. 13.1 of ITB. Failure of the Successful Bidder to comply with the requirement of submission of Performance Security Deposit shall constitute sufficient grounds for the annulment of the award and forfeiture of his Bid Security. He will also be debarred from participating in bids invited by the Project for one year.

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## PROCUREMENT & CONTRACTS DEPARTMENT

### 19.0 Undertaking:

As per Clause No. 4 (a) of IFB of Bid document mentioned at Sr. No. 1.0 (a) above, you are requested to submit the original "Undertaking" (Annexure-05) uploaded at MSTC portal to the Engineer-in-Charge before commencement of lifting of fly ash.

### 20.0 Affidavit for Utilization of Ash:

As per Clause No. 6 of IFB of Bid document mentioned at Sr. No. 1.0 (a) above, you are requested to submit an affidavit as per format of Annexure-04 of bid documents on Non – judicial stamp paper of requisite value, certifying the complete use of issued BTPP, STPL Fly ash certifying the adherence to provisions identified vide extant MoEF&CC Notification and other applicable statutory regulations on a Half Yearly basis to the Engineer-In-Charge.

### 21.0 Authorized Person:

The buyer should depute his authorised representative to power station for co-ordination and taking delivery of Fly Ash.

A proper authorization along with Identity Proof and Vehicle Details must be presented to Engineer-in-Charge, if you want to depute an agent / transporter on your behalf.

**22.0 Safety:** You, including your sub agencies, while executing the Works, will strictly comply with the statutory requirements (including amendments thereof), as applicable, in respect of the safety of his employees, equipment and materials. You will also comply with the provisions of STPL, Safety Rules as issued from time to time.

### 23.0 Responsibility during Transportation

- You will be responsible for any kind of injuries or accidents caused to their employees or labourers or any other person and STPL will not be liable in the matter.
- If any action is brought against STPL for payment of damages or compensations, you shall indemnify STPL from all such action or claim from damages/ compensation. If STPL is held liable for any compensation, you shall forthwith compensate STPL, if any, such claim arose during or after the expiry of the contract period.
- Your transporter(s) shall have valid license and meet the statutory compliance requirement of State Govt./ Central Govt./ Concerned Authorities for transportation of the specified goods.
- Buyers eligible for collecting ash shall apply for permission for the Bulklers/ covered Trucks that they propose to deploy and submit the same to EIC along with specified documents like registration, license, insurance etc, who shall arrange to verify the same and issue permission as per prevailing procedure adopted at STPL.

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**PROCUREMENT & CONTRACTS DEPARTMENT**

- e. Road Permits, Operator/ Driver Licenses, Insurance etc. for the deployed vehicles shall be submitted at the time of start of work (and also when new and / or additional vehicles are deployed) and thereafter as and when demanded by the EIC for verification. The vehicles shall be in fit condition for safe operation.
- f. Transportation including Bagging / Packing of fly ash and any other related activity is in the scope of the buyer. No claim whatsoever, by you for transportation of fly ash will be payable.

**24.0 Pollution Control and Transportation of Fly Ash:**

All possible measures would be taken by the buyer to avoid pollution to the satisfaction of the plant officials. Similarly, while transporting, no spillage of fly ash would be permitted to avoid air pollution. If the process adopted by the buyer is found to be deficient, STPL retains the right to stop the fly ash supply forthwith.

**25.0** Transportation including Bagging / Packing of fly ash and any other related activity is in the scope of the bidder. No claim whatsoever, by the bidder for transportation of fly ash will be payable.

**26.0** The buyer and its transporter would be entirely responsible towards MVI / RTO for overloading of fly ash. BTPP/STPL in any case will not be held responsible for the same.

**27.0 Compliance by Buyers**

Buyers to comply with all reasonable controls imposed by BTPP, STPL and to cooperate with BTPP, STPL and other operating agency (s)/ contractors and shall abide by the decision of EIC. In case of any dispute the decision of EIC shall be final and binding.

**28.0 Indemnities for Environmental Conditions**

All Regulatory & Statutory compliances to be ensured by you while lifting/transportation/ Disposal/ Usage/ Sale etc.

You are requested to submit an indemnity bond as per the prescribed format (Annexure-10) of bid document to keep STPL indemnified against legal proceedings/ paying damages arising out of non-compliances by you, if any.

**29.0 Integrity Pact:**

As per Clause No. 21 of IFB of Bid document, you are requested to submit duly executed Integrity Pact as per format of Annexure-06 of bid document on non-Judicial stamp paper of Rs 100/- within 30 days from the date of issuance of this LOA.

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**PROCUREMENT & CONTRACTS DEPARTMENT**

**30.0** SJVN Thermal (P) Ltd. Reserves the right to rectify / correct any typographical error inadvertently committed in this Letter of Award.

**31.0 Engineer-In-Charge (EIC):**

Sh. Sandeep Kumar, Head (CFMD) (Email: [cfmd.stpl@sjvn.nic.in](mailto:cfmd.stpl@sjvn.nic.in)) will be the Engineer-In-Charge for this contract.

You are requested to return a copy of this Letter of Award, duly signed, as acknowledgement of the same within Fifteen (15) days of issuance of this letter, failing which, this letter of allocation will be deemed to be accepted in full by you.

For & on behalf of SJVN Thermal (P) Ltd.

  
20/01/16  
Vivek  
GM (Contracts)

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**PROCUREMENT & CONTRACTS DEPARTMENT**

Ref. Number: STPL/BTPP/FLYASH/FA-02/LOA- 729

Date: 20.01.2026

**LETTER OF AWARD**

To,

**M/S SHAMBHUNATH INDUSTRIES  
FATEHPUR MATHIYA SAHAR,  
BHOJPUR, BIHAR- 802208**

**Kind Attention: Mr. RADDHESHYAM GIRI; Mob. No. 9122194837 (Email: radheshyamgiri 18@gmail.com, sambhunathindustries22@gmail.com )**

**Subject: Letter of Award for "Sale of Fly Ash through Open Auction at Buxar Thermal Power Station, Buxar, Bihar (Bid Document Ref. No: FA/BTPP-02/2025)".**

Dear Madam / Sir,

**1.0** This has reference to the following:

a) Bid document (Ref. No.: FA/BTPP-02/2025) Containing:

- i) Invitation for Bids (IFB)
- ii) Instructions to Bidders (ITB)
- iii) General Conditions of Contract (GCC)
- iv) Special Conditions of Contract (SCC)
- v) Annexures
- vi) MSTC Auction Catalogue (Auction No. MSTC/PTN/SJVN THEMAL PRIVATE LIMITED/3/CHAUSA, BUXAR/25-26/41211)

b) Auction conducted on MSTC Portal on 11.12.2025 from 12:00 Hrs to 17:00 Hrs.

c) Your bid submitted against the MSTC Auction mentioned above at Sr. No. a(vi) and clarifications/documents submitted through email dated 26.11.2025.

**2.0** We are pleased to accept your above-mentioned offer and allocate you **7,000 MT** [Seven Thousand Metric Tonne] of Fly Ash at the rate of **INR 120 /- per MT** [One Hundred Twenty Rupees only, per Metric Tonne], (Exclusive of all taxes and duties) from Buxar Thermal Power Project (BTPP), STPL, CHAUSA, Buxar, Bihar for a period of One [01] year as per terms and conditions of bid documents and bid/offer submitted by you against MSTC Auction mentioned at a(vi) above.

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**PROCUREMENT & CONTRACTS DEPARTMENT**

**3.0** Terms & Conditions including Scope of Supply for this letter of award (LOA) shall be as per bid documents and other references as mentioned at Sr. No. 1.0 above.

**4.0 Scope of Fly Ash Supply:**

- a) STPL would issue ash from the discharge chute of designated Ash Silos at BTPP / other suitable locations as decided by (Engineer-in-Charge) EIC of STPL subject to availability, Force Majeure conditions and unplanned outage of Plant, etc.
- b) STPL reserves the right to supply the quantity not lifted by you to any other agency at the sole discretion of STPL.

**5.0 Period of Sale/Contract Period:** Duration of sale of fly ash from BTPP will be for a period of one year from the date of commencement of first off take or till the completion of supply of Bid quantity, whichever is earlier.

**6.0 Commencement of First Off Take:** Commencement of first off take for buyer of fly ash should not exceed beyond 15 days from the date of issue of award letter unless specifically agreed by STPL.

The owner has right to suspend the delivery of Fly Ash if the advance amount is not available with the owner by the required date and such suspension of delivery shall be to the account of buyer.

**7.0 Price:** The price of Fly Ash is INR 120 /- per MT [One Hundred Twenty Rupees only, per Metric Tonne], exclusive of all taxes and duties. The price of fly ash shall remain firm for the 'Period of Sale/Contract Period'.

**8.0 Working Hours**

Issue of fly ash is intended to be given on all days (on 24 x 7 basis) excluding national holidays or as per directions of EIC of STPL.

**9.0 Consideration payable by the Buyer**

Allocated quantity of fly ash for the period shall be divided into monthly quantity and amount payable based on the quantity for one month is to be deposited in advance (along with all taxes and duties as applicable) in STPL account for the quantity of fly ash to be lifted in next month.

**10.0 Quality of Fly Ash**

STPL would issue dry fly ash from designated 'Dry Fly Ash Collection Locations' i.e. Ash Silo Chute / other suitable locations as decided by EIC on "As Available" basis on actual weightment.

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## PROCUREMENT & CONTRACTS DEPARTMENT

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- Fly ash shall be issued based on actual weighment.
- Unit: The lifted fly ash shall be weighed in the terms of MT (Metric Tonne).
- Weighment: Weighment of lifted fly ash shall be done at nearest authorised weighment facility of STPL. Weight so recorded shall be considered final.

### 12.0 Delivery Point / Collection Location:

- STPL would issue fly ash from the discharge chute of designated Dry Fly Ash Silos / other suitable locations as decided by EIC of STPL.
- Fly ash shall be considered to have been issued and collected as it passes into the buyer's vehicle at the loading point.

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If requested by the buyer, STPL may consider supply of additional quantity over & above the allocated quantity, limited to 20% of total awarded quantity within the contracted period, subject to availability and at the sole discretion of STPL at the price of the LOA for which extension is requested.

### 14.0 Payment Terms & Bank Charges

- Delivery shall be made against advance payment which shall be adjusted against delivery on daily basis.
- Buyer shall deposit an advance amount equivalent to 01 (one) Month of Annual Award Value for the allocated quantity of fly ash in the award letter, within 15 days of placement of award.
- Buyer to pay any taxes / duties extra on the applicable rates.
- The buyer to deposit the CPG @ 10 % of award value (or INR 1/- per MT, whichever is higher, subject to a minimum of INR 10,000/-) in addition to advance mentioned above at clause (b) before start of work.
- Permission to start the work will be given for first month after deposition of CPG and one-month advance payment along with the applicable taxes/ duties within 15 days of placement of award.

**Note:** It is advised that prior to submission of one-month advance, buyers are requested to contact EIC for getting details of available quantity of fly ash for the 1<sup>st</sup> and subsequent month & accordingly submit the advance.

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दूरभाष: 06183-295275 फैक्स: 06183-223165  
ईमेल: [pcdbtpp@sjvn.nic.in](mailto:pcdbtpp@sjvn.nic.in)

**Project Office:** 1<sup>st</sup> Floor, Main Office Building,  
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एसजेवीएन थर्मल (प्रा.) लिमिटेड  
**SJVN Thermal (P) Ltd.**

(एसजेवीएन की पूर्ण स्वामित्व वाली अधीनस्थ कंपनी)  
(A wholly owned subsidiary of SJVN)  
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1320 MW Buxar Thermal Power Project



**PROCUREMENT & CONTRACTS DEPARTMENT**

- f. Permission for next subsequent month will be given after depositing the advance payment for that month (along with the taxes / duties equivalent to 01 (One) Month of Annual Award Value for the allocated quantity of ash) before start of that month.
- g. All bank charges shall be borne by the buyer.

**15.0 Taxes, Duties, Levies etc.**

- a) The buyer shall be liable and responsible for payment of all statutory levies in the form of GST and all other taxes and duties applicable on the Sale of fly ash. Such statutory liabilities, if any, shall be paid by the buyer extra at actual.
- b) All fly ash will be sold on Ex Silo / Ex Works basis. Regarding exports of fly ash by the buyer, it is the responsibility of the buyer to fulfill their export obligations as may be required, and any shortfall in this regard shall be to the account of the buyer only. The buyer indemnifies the owner against all such liabilities and losses on failure to fulfil the export obligations, if any.

**16.0 Billing**

STPL will issue Exit gate pass on daily basis and invoices on daily/ weekly/ fortnightly/ monthly basis and shall deliver to the buyer(s) an invoice showing the value of the fly ash issued for each day, along with applicable GST and all other duty/ taxes/ cess etc. as applicable and shall be adjusted against the advance payment made by the buyer(s) as per Clause 'Payment Terms & Bank Charges'.

**17.0 Lifting Sequence & allocation after Auction Process:**

To be finalized by EIC depending upon site specific conditions.

- a. All allocated buyers (or transportation vendors) shall be expected to follow the above schedule and mobilize accordingly.
- b. In case of non-mobilization/ inadequate mobilization, STPL may, at its discretion, allocate such quantity to alternate buyer(s). Decision of EIC, STPL shall be final and binding in this regard.

**18.0 Contract Performance Guarantee (CPG) / Security Deposit (SD):** As per Clause No. 13 of ITB of bid document mentioned at Sr. No. 1.0(a) above, you are requested to furnish the required Contract Performance Guarantee (CPG) through any one of modes mentioned in Clause No. 13.1 of ITB. Failure of the Successful Bidder to comply with the requirement of submission of Performance Security Deposit shall constitute sufficient grounds for the annulment of the award and forfeiture of his Bid Security. He will also be debarred from participating in bids invited by the Project for one year.

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1320 MW Buxar Thermal Power Project



## PROCUREMENT & CONTRACTS DEPARTMENT

### 19.0 Undertaking:

As per Clause No. 4 (a) of IFB of Bid document mentioned at Sr. No. 1.0 (a) above, you are requested to submit the original "Undertaking" (Annexure-05) uploaded at MSTC portal to the Engineer-in-Charge before commencement of lifting of fly ash.

### 20.0 Affidavit for Utilization of Ash:

As per Clause No. 6 of IFB of Bid document mentioned at Sr. No. 1.0 (a) above, you are requested to submit an affidavit as per format of Annexure-04 of bid documents on Non – judicial stamp paper of requisite value, certifying the complete use of issued BTPP, STPL Fly ash certifying the adherence to provisions identified vide extant MoEF&CC Notification and other applicable statutory regulations on a Half Yearly basis to the Engineer-In-Charge.

### 21.0 Authorized Person:

The buyer should depute his authorised representative to power station for co-ordination and taking delivery of Fly Ash.

A proper authorization along with Identity Proof and Vehicle Details must be presented to Engineer-in-Charge, if you want to depute an agent / transporter on your behalf.

### 22.0 Safety: You, including your sub agencies, while executing the Works, will strictly comply with the statutory requirements (including amendments thereof), as applicable, in respect of the safety of his employees, equipment and materials. You will also comply with the provisions of STPL, Safety Rules as issued from time to time.

### 23.0 Responsibility during Transportation

- You will be responsible for any kind of injuries or accidents caused to their employees or labourers or any other person and STPL will not be liable in the matter.
- If any action is brought against STPL for payment of damages or compensations, you shall indemnify STPL from all such action or claim from damages/ compensation. If STPL is held liable for any compensation, you shall forthwith compensate STPL, if any, such claim arose during or after the expiry of the contract period.
- Your transporter(s) shall have valid license and meet the statutory compliance requirement of State Govt./ Central Govt./ Concerned Authorities for transportation of the specified goods.
- Buyers eligible for collecting ash shall apply for permission for the Bulklers/ covered Trucks that they propose to deploy and submit the same to EIC along with specified documents like registration, license, insurance etc, who shall arrange to verify the same and issue permission as per prevailing procedure adopted at STPL.

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1320 MW Buxar Thermal Power Project



**PROCUREMENT & CONTRACTS DEPARTMENT**

- e. Road Permits, Operator/ Driver Licenses, Insurance etc. for the deployed vehicles shall be submitted at the time of start of work (and also when new and / or additional vehicles are deployed) and thereafter as and when demanded by the EIC for verification. The vehicles shall be in fit condition for safe operation.
- f. Transportation including Bagging / Packing of fly ash and any other related activity is in the scope of the buyer. No claim whatsoever, by you for transportation of fly ash will be payable.

**24.0 Pollution Control and Transportation of Fly Ash:**

All possible measures would be taken by the buyer to avoid pollution to the satisfaction of the plant officials. Similarly, while transporting, no spillage of fly ash would be permitted to avoid air pollution. If the process adopted by the buyer is found to be deficient, STPL retains the right to stop the fly ash supply forthwith.

**25.0** Transportation including Bagging / Packing of fly ash and any other related activity is in the scope of the bidder. No claim whatsoever, by the bidder for transportation of fly ash will be payable.

**26.0** The buyer and its transporter would be entirely responsible towards MVI / RTO for overloading of fly ash. BTPP/STPL in any case will not be held responsible for the same.

**27.0 Compliance by Buyers**

Buyers to comply with all reasonable controls imposed by BTPP, STPL and to cooperate with BTPP, STPL and other operating agency (s)/ contractors and shall abide by the decision of EIC. In case of any dispute the decision of EIC shall be final and binding.

**28.0 Indemnities for Environmental Conditions**

All Regulatory & Statutory compliances to be ensured by you while lifting/transportation/ Disposal/ Usage/ Sale etc.

You are requested to submit an indemnity bond as per the prescribed format (Annexure-10) of bid document to keep STPL indemnified against legal proceedings/ paying damages arising out of non-compliances by you, if any.

**29.0 Integrity Pact:**

As per Clause No. 21 of IFB of Bid document, you are requested to submit duly executed Integrity Pact as per format of Annexure-06 of bid document on non-Judicial stamp paper of Rs 100/- within 30 days from the date of issuance of this LOA.

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**PROCUREMENT & CONTRACTS DEPARTMENT**

**30.0** SJVN Thermal (P) Ltd. Reserves the right to rectify / correct any typographical error inadvertently committed in this Letter of Award.

**31.0 Engineer-In-Charge (EIC):**

Sh. Sandeep Kumar, Head (CFMD) (Email: [cfmd.stpl@sjvn.nic.in](mailto:cfmd.stpl@sjvn.nic.in)) will be the Engineer-In-Charge for this contract.

You are requested to return a copy of this Letter of Award, duly signed, as acknowledgement of the same within Fifteen (15) days of issuance of this letter, failing which, this letter of allocation will be deemed to be accepted in full by you.

**For & on behalf of SJVN Thermal (P) Ltd.**

*Vivek*  
20/01/26  
**Vivek**  
**GM (Contracts)**

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**ENVIRONMENTAL  
CLEARANCE**



**Government of India  
Ministry of Environment, Forest and Climate Change  
(Issued by the State Environment Impact Assessment  
Authority(SEIAA), Bihar)**

To,

The HEAD INFRASTRUCTURE WORK AND TOWNSHIP DEPARTMENT  
MINI SMART TOWNSHIP OF BTPP BUXAR  
2ND FLOOR NAV DURGA COMPLEX, COLLECTRIATE ROAD,  
AMBEDKAR CHOWK, BUXAR -802103

**Subject:** Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the SEIAA vide proposal number SIA/BR/MIS/251608/2022 dated 14 Jan 2022. The particulars of the environmental clearance granted to the project are as below.

- |  |   |
|--|---|
| 1. EC Identification No.                   | EC22B038BR124616                        |
| 2. File No.                                | SIA/8(a)/1854/2022                      |
| 3. Project Type                            | New                                     |
| 4. Category                                | B2                                      |
| 5. Project/Activity including Schedule No. | 8(a) Building and Construction projects |
| 6. Name of Project                         | Mini smart Township of BTPP Buxar       |
| 7. Name of Company/Organization            | MINI SMART TOWNSHIP OF BTPP BUXAR       |
| 8. Location of Project                     | Bihar                                   |
| 9. TOR Date                                | N/A                                     |

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 06/05/2022

(e-signed)  
Mr. Sudhir Kumar  
Member Secretary  
SEIAA - (Bihar)

*Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.*

*This is a computer generated cover page.*

**PARIVESH**

**(Pro-Active and Responsive Facilitation by Interactive,  
and Virtuous Environmental Single-Window Hub)**



**STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, BIHAR**

**F. No.:- SIA/8(a)/1854/2022**

**Sub:** Proposed Building Project at Mauza:- Khormpur, Tehsil:- Chausa, District:- Buxar, State:- Bihar; by M/s Mini Smart Township of BTPP Buxar [Total Plot Area:- 2,00,400 m<sup>2</sup>, Total Built-up Area:- 69,895.90 m<sup>2</sup>] - Environmental Clearance regarding.

- Reference:-**
1. MoEF&CC Proposal No. - SIA/BR/MIS/251608/2022 & SEIAA File No.:- SIA/8(a)/1854/2022.
  2. Your application dated 17-01-2022 (hard copy submission).
  3. Minutes of the SEAC meeting held on 29-01-2022 and 11-04-2022.
  4. Minutes of the SEIAA meeting held on 02-05-2022.

**Sir,**

This has reference to your online application for the above proposal of M/s Mini Smart Township of BTPP Buxar for Building and Construction Project at Mauza:- Khormpur, Tehsil:-Chausa, District:-Buxar, State:- Bihar. The details of the projects are as follows:-

Sl. No.	Item	Details
1.	Name of the project	Proposed Building Project at Mauza:- Khormpur, Tehsil:- Chausa, District:- Buxar, State:- Bihar; by M/s Mini Smart Township of BTPP Buxar
2.	S. No. in the Schedule	8(a)
3.	Type of Project	8(a) {Building & Construction Project}
4.	Total Plot Area	2,00,400 m <sup>2</sup>
5.	Total Built-up Area	69,895.90 m <sup>2</sup>
6.	Total Green Belt Area	47,618.48 m <sup>2</sup> (24% of the total plant area)
7.	Proposed Parking Area of the project	18,327.76 m <sup>2</sup>
8.	Location of the Project	Thana No.- 42, Khata No.- 40, 61, 87, 68, 75, 41, 88, 75, 87, 1, 25, 86, 9, 52, 19, 70, 47, 4, 53, 33, 36, 46, 5, 10, 11, 65, 71, 74, 27, 37, 18, 63, 84, 67, 56, 43 Plot No. 160-207, 209-222, 224-257, 283-287, 294, 296-306, 310, 313, 314, 335, 336, 337, 346, 352, 353, 354,

		355 169/803, 171/796, 171/804 Mauza:- Khormpur, Tehsil:- Chausa, District:- Buxar, State:- Bihar.			
9.	Geo-Coordinates of the project	25° 27' 53.41" N 85° 52' 12.36" E 25° 27' 49.93" N 85° 52' 12.68" E			
10.	Maximum height of the building	25.45 meters			
11.	Stories	<b>Sl. No.</b>	<b>Residential</b>	<b>Building Code</b>	<b>Floor</b>
		1.	HOP Residence	RES - HOP	G + 01
		2.	Type - D Accommodation	RES - D	G + 02
		3.	Type - D Accommodation	RES - D	G + 01
		4.	Type - C Accommodation	RES - C	S + 07
		5.	Type - B Accommodation	RES - B	S + 07
		6.	Field Hostel - Family Complex	RES - FHF	G + 02
		7.	Field Hostel - Bachelor Complex	RES - FHB	S + 06
		<b>Non Residential</b>			
		1.	Field Hostel cum Training Center	NRES - TCW	G + 03
		2.	Primary School and Kindergarten	NRES - TCW	G + 01
		3.	Hospital	NRES - H	G + 02
		4.	Shopping complex	NRES - SHOP	G + 01
		5.	Executive club cum Ladies club	NRES - EC	G + 02
		6.	Sub-Ordinate Club	NRES - SC	G + 01
		7.	Guest House	RES - GH	G + 03
		8.	Auditorium	NRES - AUDIT	G + 01
9.	Sports Complex	NRES - SC	G		
10.	CISF Office	RES - CISF	G + 01		
11.	CISF Armory	NRES - CISF	G		
12.	CISF Complex	NRES - CISF	G + 07		
13.	CISF Barracks	NRES - AU	G + 01		
12.	Total Water Requirement	360 KLD			
13.	Waste Water Generated	230 KLD			
14.	Solid Waste Generated	912 Kg/day			
15.	Biodegradable Waste	547 Kg/day			
16.	Non-Biodegradable Waste	365 Kg/day			
17.	Bio- Medical waste	20 Kg/day			
18.	STP Capacity	270 KLD			
19.	Source of Water	Groundwater through own Borewells			
20.	Power Requirement	1,872 KVA			
21.	Source of Power	Bihar Electricity Board.			
22.	Power Backup	2 DG set of 500 KVA of DG set will be installed.			
23.	Total Cost of Expansion Project site	Total Project Cost - ₹ 1,65,93,00,000/- Environment Management Plan Cost <b>During Construction Phase</b> Capital Cost - - ₹ 40,00,000/-			

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		Recurring Cost - ₹ 15,00,000/- <b>During Operation Phase</b> Capital Cost - ₹ 1,44,00,000/- Recurring Cost - ₹ 26,00,000/-
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## PREMISES OF THE ENVIRONMENTAL CLEARANCE

This Environmental Clearance is being issued on the premises which have been substantiated / described in detail in the format of application along with enclosed affidavits / certificates / undertakings etc. furnished therewith by the project proponent:-

- (i) Information provided, descriptions mentioned are complete, true and actual and no relevant fact has been concealed to obtain Environmental Clearance deceitfully by the project proponent.
- (ii) Environmental Clearance shall be liable to be revoked if furnished information, provided description / Certificates / Affidavits / Undertaking etc. are found false/ concocted at any stage of its validity.
- (iii) Project Proponent shall intimate SEIAA immediately if there is any change in their official address / E-mail / Ph. No / Cell. no etc failing which communication sent to them on old address shall be considered as delivered.
- (iv) This Environmental Clearance is issued without affecting any court order / statutory other institutions as well as relevant other laws enactment by Ministry of Environment, Forest & Climate Change, Government of India, New Delhi.

### I. Statutory compliance:

1. The Project Proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
2. The Project Proponent will obtain CTE from the BSPCB before preparing site for construction; if applicable and CTO before giving occupancy.
3. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of fire fighting equipment, etc. as per National Building Code including protection measures from lightning, etc.

4. All directions of the Airport Authority, Director of Explosives and Fire Department, etc. shall be complied with.
5. The Project Proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the Bihar State Pollution Control Board.
6. The Project Proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
7. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
8. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by Project Proponents from the respective competent authorities.
9. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
10. The Project Proponent shall follow the ECBC / ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power, GoI. strictly.
11. The facilities provided for collection, segregation, handling, on site storage & processing of solid waste such as chute system for multi-storey buildings, wet & dry bins, collection centre & mechanical composter, etc. shall be properly maintained. The collected solid waste shall be segregated at site. The recyclable solid waste shall be sold out to the authorized vendors / recyclers for which a written tie-up must be done with the authorized vendors / recyclers.
12. Hazardous waste / E-waste should be disposed off as per Rules applicable and with the necessary approval of the Bihar State Pollution Control Board.
13. Solar power plant or other solar energy related equipment's shall be operated and maintained properly.
14. Provisions shall be made for the integration of solar water heating system.

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15. Environmental Clearance conditions applicable for construction and operation phase which are in the interest of public at large must be displayed at prominent place which can be easily accessible to public along with address and contact number of authorities to whom violation of EC conditions can be reported.
16. Project site shall be adequately barricaded before the start of construction activity by erecting suitable windscreen upto.  $1/3^{\text{rd}}$  of the building height or 10 meters height whichever is more to prevent dispersion of dust particulate (fugitive emission) matter from the construction site.
17. Construction of appropriate civil structure and creation of other facilities shall be undertaken to provide benefit of the person suffering from disability in accordance with Hon'ble Supreme Court of India order dated 15<sup>th</sup> December 2017 in Writ Petition (Civil) 292 of 2006 with WP (Civil) 997 of 2013 (Disabled Rights Grout &Anr. Vs Union of India &Ors).

## **II. Air quality monitoring and preservation**

1. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
2. Project site shall be adequately barricaded before the start of construction activity by erecting suitable windscreen upto  $1/3^{\text{rd}}$  of the building height or upto 10 meters height whichever is more to prevent dispersion of particulate matter (fugitive emission) from the construction site. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. Plastic / tarpaulin sheet covers shall be provided for vehicles bringing all loose construction material e.g sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
3. A Management Plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
4. Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height

of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets.

5. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site.
6. All loose construction material e.g. sand, soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
7. Wet jet shall be provided for grinding and stone cutting.
8. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
9. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules, 2016.
10. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection), Act 1986 prescribed for air and noise emission standards.
11. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
12. For indoor air quality the ventilation provisions as per National Building Code of India shall be implemented.

### **III. Water quality monitoring and preservation:**

1. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wet land and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.

5

2. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
3. Total fresh water use shall not exceed the proposed requirement as provided in the project details.
4. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the Project Proponent. The record shall be submitted to the, SEIAA/ Regional Office, MoEF&CC along with six monthly Monitoring reports.
5. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
6. At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape, etc. would be considered as pervious surface.
7. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing, etc. and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning, etc. shall be done.
8. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators, etc.) for water conservation shall be incorporated in the building plan.
9. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
10. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
11. The local bye-law provisions on rain water harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rainwater

harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.

12. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built-up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
13. All recharge should be limited to shallow aquifer.
14. No ground water shall be used during construction phase of the project.
15. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
16. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, no treated water shall be disposed into municipal drain.
17. No sewage or untreated effluent water would be discharged through storm water drains.
18. Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
19. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
20. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health

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and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

21. Separate drainage system shall be developed for storm water so that end point discharge to nearest nallah / river is ensured to avoid water logging without any increase in the pollution load in receiving system.
22. Possibilities need to be explored to use STP waste water during construction phase. Fresh water shall be used only after exhausting the possibility of obtaining STP waste water located in municipal jurisdiction.

**IV. Noise monitoring and prevention:**

1. Ambient noise levels shall conform to residential area silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.
2. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

**V. Energy Conservation measures:**

1. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
2. Outdoor and common area lighting shall be LED.
3. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per Energy Conservation Building Code (ECBC) specifications.

4. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
5. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-law's requirement, whichever is higher.
6. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

#### **VI. Waste Management:**

1. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the Municipal Solid Waste (M.S.W.) generated from project shall be obtained.
2. Proper composting / vermi-composting of municipal and biodegradable solid wastes shall be carried out. All municipal solid wastes shall be segregated, collected, transported, treated and disposed as per provisions of the Solid Wastes Management, 2016 (As amended).
3. All the top soil excavated during construction activities shall be stored for use in horticulture/landscape development within the project site.
4. Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
5. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.

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6. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.
7. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
8. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the Bihar State Pollution Control Board.
9. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, compressed earth blocks, and other environment friendly materials.
10. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27<sup>th</sup> August, 2003 and 25<sup>th</sup> January, 2016, Ready mixed concrete must be used in building construction.
11. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.
12. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

## **VII. Green Cover:**

1. No tree should be felled unless exigencies demand. Wherever absolutely necessary, tree translocation shall be done with prior permission from the concerned regulatory authority. Old trees should be retained/translocated based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured in the ratio of species cut to species planted.
2. 4,7618.48 sqm. (24%) of the total plot area shall be kept under green belt cover within the project site.

3. All the efforts shall be made not to fell any tree however if any tree need to be removed necessarily, it may be translocated with prior permission from concerned local Authority. In case of felling, plantations to be ensured in the ratio of species cut / removed to species planted. Area for green belt development shall be provided as per the details provided in the Project document.
4. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and re-applied during plantation of the proposed vegetation on site.

#### **VIII. Transport:**

1. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
  - a) Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
  - b) Traffic calming measures.
  - c) Proper design of entry and exit points.
  - d) Parking norms as per local regulation.
  - e) Proper signages.
2. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
3. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./competent authority for road augmentation and shall also have their consent to the

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implementation of components of the plan which involve the participation of these departments.

**IX. Human health issues:**

1. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
2. For indoor air quality the ventilation provisions as per National Building Code of India.
3. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
4. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
5. Occupational health surveillance of the workers shall be done on a regular basis.
6. A First Aid Room shall be provided in the project both during construction and operations of the project.

**X. Corporate Environment Responsibility:**

1. The Project Proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/2017-IA.III dated 1<sup>st</sup> May 2018, as applicable, regarding Corporate Environment Responsibility.
2. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements/deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

3. A separate Environmental cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly the head of the organization.
4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the SEIAA/ Ministry, Regional Office along with the Six-Monthly Compliance Report.

**XI. Additional Conditions:-**

1. Provide Waste water drain, rainwater drain and water supply pipe separately. Nothing should be drained outside the campus through underground pipes and nothing should be pumped to groundwater. All the sewage drains shall be covered.
2. Provide Safety measures (Fire, disaster, flood, etc.), /medical facilities and arrangement for physically challenged persons.
3. All the building apartment block, green area and green building of the Campus must be as per RERA and Govt. of Indian Guidelines for residential apartments having high population load (more than 2000 people).

**XII. Special Conditions:-**

1. Provide solar panels in 30% of total rooftop area (open terrace).
2. Plantation along the road as suggested in the meeting by increasing green belt and foot path.
3. Corporate Environmental responsibility (CER) proposal, in consultation with the concerned authority of the Local Body (Municipal Corporation/Municipality/Nagar Panchayat/Gram Panchayat) by clearly outlining the type of activities, which shall predominantly include Municipal Solid Waste Management activities like-
  - a) Material Recovery Facilities.
  - b) Waste processing Facilities.

- c) Waste collection vehicles, etc.
4. Make provisions for electric vehicle charging point at each parking area, for both four wheelers and two wheelers.

### **XIII. Miscellaneous:**

1. The Project Proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded Environmental Clearance and the details of MoEF&CC/SEIAA, Bihar website where it is displayed.
2. The copies of the Environmental Clearance shall be submitted by the Project Proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
3. All utility lines (electricity, telephone, cable, water supply, sewage, drainage, etc. shall be laid below ground level. Ducts shall be provided along and across the roads to lay the utility lines. Major trunk (water/sewerage) lines are to be laid along the utility corridor.
4. Rest room facilities shall be provided for service population.
5. The Project Proponent shall upload the status of compliance of the stipulated Environmental Clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
6. The Project Proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during their presentation to the State Expert Appraisal Committee.
7. The Project Proponent shall submit six-monthly reports on the status of the compliance of the stipulated Environmental Conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
8. The Project Proponent shall submit the environmental statement for each financial year in Form-V to the Bihar State Pollution Control Board as prescribed under the Environment

(Protection) Rules, 1986, as amended subsequently and put on the website of the company.

9. The Project Proponent shall inform the SEIAA, Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
10. The project authorities must strictly adhere to the stipulations made by the Bihar State Pollution Control Board and the State Government.
11. No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA, Bihar.
12. Concealing factual data or submission of false/fabricated data may result in revocation of this Environmental Clearance and attract action under the provisions of Environment (Protection) Act, 1986.
13. The Environmental Clearance granted on the basis of submitted layout plan of the proposed construction of buildings/establishments of industries shall be provisional for a period of one year or till its approved by the competent authority whichever is earlier. Should there be any deviation / change in the layout plan (as contained in the project proposal on which Environmental Clearance is granted), the Project Proponent shall furnish a copy along with a request to SEIAA, Bihar to make necessary correction/revision in the Environmental Clearance accordingly. Any failure on part of the Project Proponent in doing so will be treated as a violation of Environmental Clearance condition.
14. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
15. The SEIAA reserves the right to stipulate additional conditions if found necessary which shall be implemented in a time bound manner.
16. The Regional Office of the MoEF&CC, GoI / SEIAA shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

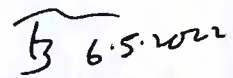
17. Project Proponent shall erect a signboard on his project site and display information regarding name of the project, Environmental Clearance letter No., date and validity period of Environmental Clearance, and Environmental Clearance conditions which affect general public at large along with name of authority to which violation of Environmental Clearance conditions can be reported.
18. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
19. Environmental Clearance shall remain valid for a maximum period of 7 years or completion of project whichever is earlier.
20. Any appeal against this Environmental Clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Sd/-

**(Sudhir Kumar)**  
Member-Secretary  
SEIAA, Bihar

**Copy, through email, for information and necessary action to :-**

1. Hon'ble Minister, Environment, Forest and Climate Change Deptt., Govt. of Bihar, Patna.
2. The Additional Chief Secretary, Environment, Forest and Climate Change Deptt., Govt. of Bihar, Sinchai Bhawan, Patna - 15.
3. The Chairman, RERA, Patna.
4. The Chairman, SEAC, Bihar.
5. The Member Secretary, B.S.P.C.B.-cum- Member Secretary SEAC, Bihar.
6. RO, Regional office, MoEF&CC, Bungalow No. A - 2, Shyamali Colony, Doranda, Ranchi - 834002.
7. Guard file.

  
**(Sudhir Kumar)**  
Member Secretary,  
SEIAA, Bihar



# जिला खनन कार्यालय, बक्सर

पत्रांक...../एम0 दिनांक.....।

सेवा में,

मेसर्स बालाजी इंजीनियरिंग प्र० लि०  
प्र०- ऋषी केश सिंह  
पता- हाउस न०-8, रोड़ न०-9A,  
इन्द्रपुरी, पाटलीपुत्रा, पटना (बिहार)।

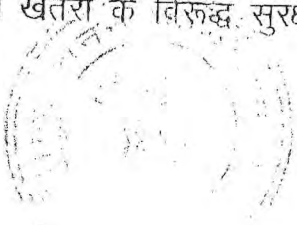
**विषय:- खनन योजना (Mining Plan) अनुमोदन के संबंध में।**

महाशय,

उपर्युक्त विषय के संबंध में कहना है कि बक्सर जिलान्तर्गत, चौसा थानान्तर्गत मौजा/ग्राम- रोहनीभान & हिगंही, खाता नं०- 20, 35, 73, 618. खेसरा नं०- 518, 619, 575, 578. रकबा 42.53 हेक्टेयर में लघु खनिज साधारण मिट्टी के खनन हेतु प्रस्तुत खनन योजना का अनुमोदन संयुक्त बिहार पटना के पत्रांक-4156/एम0 पटना दिनांक-27.12.16 के आलोक में निम्न शर्तों के साथ अनुमोदन किया जा रहा है।

40,986.00 m<sup>3</sup>.

1. खनन योजना का अनुमोदन 40,986 घन मी० वर्ष 2022-23 के लिए ही साधारण मिट्टी के उत्पादन हेतु अनुमान्य किया गया है।
2. साधारण मिट्टी खनन की गहराई सतह से 1.5 मी० से अधिक नहीं होगा।
3. खनन कार्य ग्राउन्ड वाटर लेबल से कम से कम 02 मी० उपर तक ही सीमित रखा जाएगा।
4. प्रस्तावित उत्खनन की गहराई के कम से कम आधे के बराबर चौड़ाई रखने वाले सटे मैदानों की सीमा से पटरी छोड़ दी जाएगी।
5. पथ निर्माण, तटबंध निर्माण आदि के प्रयोजनार्थ साधारण मिट्टी के खनन/उत्खनन से संबंधित क्रियाकलाप में विस्फोटक का प्रयोग नहीं होगा।
6. खनन/उत्खनन संबंधी क्रिया-कलाप कार्य क्षेत्र के सामान्य जल निकासी के प्रतिरूप (पैटर्न) को परिवर्तित नहीं करेगा।
7. खोदे गए/उत्खनित गड्ढा (पिट) को परियोजना प्रस्तावक द्वारा उपयोगी प्रयोजन (प्रयोजनों) के लिए पुनः स्थापित किया जाएगा।
8. खोदे गए/उत्खनित गड्ढा के चारों ओर समुचित घेराबंदी कर दी जाएगी, ताकि किसी दुर्घटना से बचा जा सके।
9. दुलाई के दौरान खोदी गई/उत्खनित मिट्टी के फैलने से धूल उत्सर्जन को रोकने के लिए उपाय किए जाएंगे।
10. मिट्टी के खनन/उत्खनन के कारण सृजित जल निकायों में रोगवाहकों (वेक्टर) के प्रजनन के कारण स्वास्थ्य खतरों के विरुद्ध सुरक्षा मानक अपनाये जाएंगे।



*(Handwritten signature)*

11. कामगारों/मजदूरों को पेयजल और सफाई संबंधी सुविधाएँ प्रदान की जाएँगी।
12. किसी उत्खनन क्षेत्र की परिधि से किसी असैनिक संरचना की दूरी कम से कम 15 मीटर रखी जाएगी।
13. राष्ट्रीय पार्को और वन्य प्राणी अभ्यारण्य की सीमा के 1 किलो मीटर के अन्दर उत्खनन के क्षेत्र के मामले में साधारण मिट्टी के खनन/उत्खनन की अनुमति नहीं दी जाएगी।
14. खनन योजना में खनन कार्य बेंच बनाकर किया जाएगा जिसकी अधिकतम उँचाई 1.5 मी० एवं चौड़ाई कम से कम 3.0 मी० होनी चाहिए।
15. खनन कार्य के दौरान निकाले गये टॉप स्वायल को व्यस्थित रूप से एकत्रित कर रखा जाएगा, जिसे खनन कार्य समाप्त होने के उपरान्त उसी क्षेत्र में फैला दिया जाएगा।
16. खनन योजना में वार्षित भूमि के स्वामिस्व तथा भूस्वामियों की सहमती से संबंधित अभिलेखों की पुष्टि करा लिया जाना उपेक्षि होगा।
17. भविष्य में किसी प्रकार की कोई भी गलती खनन योजना अथवा कार्य में पाई जाएगी तो खनन योजना स्वतः निरस्त माना जाएगा।

*CH*  
05/12/22

खनिज विकास पदाधिकारी  
जिला खनन कार्यालय  
बक्सर।

ज्ञापांक 628 / एम० दिनांक 05/12/22

प्रतिलिपि:- R.Q.P. प्रवीण कुमार सिन्हा मंगल मार्केट राजा बाजार को सूचनार्थ प्रेषित।

*CH*  
05/12/22

खनिज विकास पदाधिकारी  
जिला खनन कार्यालय  
बक्सर।

*CH*



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*CH*

## जिला खनन कार्यालय, बक्सर

पत्रांक-221/एम0 दिनांक-02/02/2023

सेवा में,

मेसर्स बालाजी इंजीनिरिया प्र० लि०  
प्रो०- ऋषी केश कुमार  
पता- हाउस न०-8, रोड़ न०-9A,  
इन्द्रपुरी, पाटलीपुत्रा, पटना (बिहार)।

विषय:- खनन योजना (Mining Plan) अनुमोदन के संबंध में।

महाशय,

उपर्युक्त विषय के संबंध में कहना है कि बक्सर जिलान्तर्गत, राजपुर थानान्तर्गत मौजा/ग्राम-नावर & भीलमपुर, खाता नं०-21, 22, 26. खेसरा नं०-60, 358, 230, 233, 235. रकवा 4.85 हेक्टेयर में लघु खनिज साधारण मिट्टी के खनन हेतु प्रस्तुत खनन योजना का अनुमोदन सयुक्त बिहार पटना के पत्रांक-4156/एम0 पटना दिनांक-27.12.16 के आलोक में निम्न शर्तों के साथ अनुमोदन किया जा रहा है।

1. खनन योजना का अनुमोदन 78,570 घन मी० वर्ष 2023-24 के लिए ही साधारण मिट्टी के उत्पादन हेतु अनुमान्य किया गया है।
2. साधारण मिट्टी खनन की गहराई सतह से 1.5 मी० से अधिक नहीं होगा।
3. खनन कार्य ग्राउन्ड वाटर लेबल से कम से कम 02 मी० उपर तक ही सीमित रखा जाएगा।
4. प्रस्तावित उत्खनन की गहराई के कम से कम आधे के बराबर चौड़ाई रखने वाले सटे मैदानों की सीमा से पटरी छोड़ दी जाएगी।
5. पथ निर्माण, तटबंध निर्माण आदि के प्रयोजनार्थ साधारण मिट्टी के खनन/उत्खनन से संबंधित क्रियाकलाप में विस्फोटक का प्रयोग नहीं होगा।
6. खनन/उत्खनन संबंधी क्रिया-कलाप कार्य क्षेत्र के सामान्य जल निकासी के प्रतिरूप (पैटर्न) को परिवर्तित नहीं करेगा।
7. खोदे गए/उत्खनित गड्ढा (पिट) को परियोजना प्रस्तावक द्वारा उपयोगी प्रयोजन (प्रयोजनों) के लिए पुनः स्थापित किया जाएगा।
8. खोदे गए/उत्खनित गड्ढा के चारों ओर समुचित घेराबंदी कर दी जाएगी, ताकि किसी दुर्घटना से बचा जा सके।
9. ढुलाई के दौरान खोदी गई/उत्खनित मिट्टी के फैलने से धूल उत्सर्जन को रोकने के लिए उपाय किए जाएंगे।
10. मिट्टी के खनन/उत्खनन के कारण सृजित जल निकायों में रोगवाहकों (वेक्टर) के प्रजनन के कारण स्वास्थ्य खतरों के विरुद्ध सुरक्षा मानक अपनाये जाएंगे।

11. कामगारों/मजदूरों को पेयजल और सफाई संबंधी सुविधाएँ प्रदान की जाएँगी।
12. किसी उत्खनन क्षेत्र की परिधि से किसी असैनिक संरचना की दूरी कम से कम 15 मीटर रखी जाएगी।
13. राष्ट्रीय पार्को और वन्य प्राणी अभ्यारण्य की सीमा के 1 किलो मीटर के अन्दर उत्खनन के क्षेत्र के मामले में साधारण मिट्टी के खनन/उत्खनन की अनुमति नहीं दी जाएगी।
14. खनन योजना में खनन कार्य बेंच बनाकर किया जाएगा जिसकी अधिकतम उँचाई 1.5 मी० एवं चौड़ाई कम से कम 3.0 मी० होनी चाहिए।
15. खनन कार्य के दौरान निकाले गये टॉप स्वायल को व्यस्थित रूप से एकत्रित कर रखा जाएगा, जिसे खनन कार्य समाप्त होने के उपरान्त उसी क्षेत्र में फँला दिया जाएगा।
16. खनन योजना में वार्षित भूमि के स्वामिस्व तथा भूस्वामियों की सहमती से संबंधित अभिलेखों की पुष्टि करा लिया जाना उपेक्षित होगा।
17. भविष्य में किसी प्रकार की कोई भी गलती खनन योजना अथवा कार्य में पाई जाएगी तो खनन योजना स्वतः निरस्त माना जाएगा।



खनिज विकास पदाधिकारी  
जिला खनन कार्यालय  
बक्सर।

ज्ञापांक ०२/...../एम० दिनांक ०३/०३/२३

प्रतिलिपि:- R.Q.P. प्रवीण कुमार सिन्हा मंगल मार्केट राजा बाजार को सूचनार्थ प्रेषित।

Ambika Kumar

03/03/23

खनिज विकास पदाधिकारी  
जिला खनन कार्यालय  
बक्सर।








**भारतीय मानक ब्यूरो**  
**BUREAU OF INDIAN STANDARDS**  
**पर्यावरण प्रबंध पद्धति प्रमाणन लाइसेंस**

**LICENCE FOR THE ENVIRONMENTAL MANAGEMENT SYSTEMS CERTIFICATION**

लाइसेंस सं.- ईएम/एल-5000639

**Licence NO. EM/L-5000639**

भारतीय मानक ब्यूरो अधिनियम, 2016(2016 का 11) द्वारा प्रदत्त शक्तियों के नाते, बक्सर थर्मल पॉवर प्रोजेक्ट, (एसजेवीएन थर्मल पीवीटी लिमिटेड का यूनिट), मोहनपुरवा, अखाऊरीपुर गोला, चौसा, जिला - बक्सर, बिहार - 802114 को मंजूरी देता हूँ (जिसे इसमें इसके पश्चात इसे अनुज्ञप्तिधारी कहा गया है) इस अनुसूची में वर्णित विशेष तौर पर उत्पाद एवं/या सेवाओं या प्रक्रियाओं के संबंध में पर्यावरण प्रबंध पद्धति प्रमाणन के अनुज्ञप्तिधारकों की ब्यूरो की सूची में अनुज्ञप्ति के अनुसार इसी संख्या धारक को अधिकार एवं अनुज्ञप्ति सूचीबद्ध किया जाए। IS/ISO 14001:2015 के अनुसार पर्यावरण प्रबंध पद्धति के अधीन उक्त किए गये पते पर केवल अनुज्ञप्तिधारक धारक द्वारा एमै उत्पाद एवं/या सेवाओं या प्रक्रियाओं को निर्मित किया/उपलब्ध कराया/चलाया जायेगा।

By virtue of the power conferred on it by, the Bureau of Indian Standards Act, 2016 (11 of 2016), the Bureau hereby grants to Buxar Thermal Power Project, (Unit of SJVN Thermal Pvt. Limited), Mohanpurwa, Akhaouripur Gola, Chausa, Dist - Buxar, Bihar - 802114 (hereinafter called the Licensee) the right and licence to be listed in the Bureau's list(s) of Licensee of Environmental Management Systems Certification in respect of the products and/or services or processes particularly described in the schedule hereto, bearing the same number as this licence. Such products and/or services or processes shall be manufactured/provided/carried out by the Licensee at only the address(es) given above, and under the Environmental Management Systems in accordance with IS/ISO 14001:2015

अनुज्ञप्ति उक्त अधिनियम और उनके अधीन नियमों तथा विनियमों के संबंधित उपबंधों की शर्त पर मंजूर किया गया है तथा उक्त संदर्भित अनुज्ञप्तियों को इसके तहत शामिल किया जाता है, तथा अनुज्ञप्तिधारक उक्त नियमों एवं विनियमों का पालन किए जाने के लिए प्रतिज्ञाबद्ध है।

The licence is granted subject to the relevant provisions of the above Act and the rules and regulations made thereunder governing the licences referred to above, and the Licensee hereby covenants with the Bureau duly to observe with the said Rules and Regulations

यह अनुज्ञप्ति तारीख 31 जनवरी 2023 से 30 जनवरी 2026 तक विधिमान्य रहेगा और विनियमों में यथाविहित पुनः प्रमाणन किया जा सकेगा।

This licence shall be valid from 31 January 2023 to 30 January 2026 and may be recertified as prescribed in the Regulations.

2023 के माह के

Signed, Sealed and Dated this 20th February

दिन हस्ताक्षरित एवं मुहरांकित

Two Thousand and Twenty Three.

डी.चक्रवर्ती

D.Chakrabarti

उप सहायनिदेशक

Deputy Director General

भारतीय मानक ब्यूरो

BUREAU OF INDIAN STANDARDS

**भारतीय मानक ब्यूरो / BUREAU OF INDIAN STANDARDS**

एन एम आई सी भवन (आठवीं फ्लोर), प्लॉट नंबर 717, 718,  
ब्लॉक - सीपी, सेक्टर - V, साल्ट लेक, कोलकाता - 700091  
NSIC Building (8th Floor) at Plot No. 717, 718,  
Block - CP, Sector - V, Salt Lake, Kolkata - 700091





## BUREAU OF INDIAN STANDARDS

लाइसेंस सं. ईएम/एल -5000639 की अनुसूची  
Schedule to licence No. EM/L-5000639

जारी : बक्सर थर्मल पावर प्रोजेक्ट, (एसजेवीएन थर्मल पीवीटी लिमिटेड का यूनिट),  
मोहनपुरवा, अखाऊरीपुर गोला, चौसा, जिला - बक्सर, बिहार - 802114  
Issued to: Buxar Thermal Power Project, (Unit of SJVN Thermal Pvt. Limited),  
Mohanpurwa, Akhaouripur Gola, Chausa,  
Dist - Buxar, Bihar - 802114

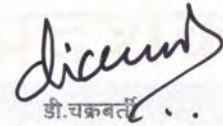
### अनुसूची SCHEDULE

उत्पाद/सेवा/प्रक्रिया हेतु फ़र्म को अनुज्ञप्ति मंजूर की गई है:  
पर्यावरण प्रबंध पद्धति प्रमाणन

Products/services/processes with respect to which the firm has been  
granted the licence for  
Environmental Management Systems Certification:

"All activities in respect of Construction, Erection and Commissioning of  
1320 MW Buxar Thermal Power Project".

At: Buxar Thermal Power Project, (Unit of SJVN Thermal Pvt. Limited),  
Mohanpurwa, Akhaouripur Gola, Chausa, Distt. - Buxar, Bihar - 802114



डी. चक्रवर्ती  
उप महानिदेशक

Deputy Director General  
भारतीय मानक ब्यूरो

BUREAU OF INDIAN STANDARDS

भारतीय मानक ब्यूरो / BUREAU OF INDIAN STANDARDS

एन एस आई सी भवन (आठवीं मंजिल), प्लॉट नंबर 7/7, 7/8,  
ब्लॉक - सीपी, सेक्टर - V, साल्ट लेक, कोलकाता - 700091  
NSIC Building (8th Floor) at Plot No. 7/7, 7/8,  
Block - CP, Sector - V, Salt Lake, Kolkata - 700091



### **VISION DOCUMENT OF 1320 MW, BUXAR THERMAL POWER PROJECT (BTPP)**

#### **1.0 Introduction:-**

The installed power generation capacity of India as on is 4,16,591.38 MW and out of this the installed generation capacity in Bihar is 7,323 MW including the allocated shares from central generating stations. As per the 18th EPS published by Central Electricity Authority (CEA), the estimated peak load demand in Bihar at the end of 13th 5-year plan (FY 2021-22) is 9,306 MW. The actual peak demand for the financial year 2018-19 in Bihar was 5115 MW and the peak demand met was 5084MW leaving a peak deficit of 0.6%. It may be noted that the actual power scenarios is less than the projections as per the 18th EPS and also the per capita power consumption in Bihar is lowest at 265 units per annum, against the national average of 1,060 units per annum. The Bihar state government is taking steps to provide access to electricity all households and also agriculture needs in rural areas. To meet up with overall national objective and to enable Bihar access to additional power required to sustain the high growth rate being witnessed, Govt. of Bihar had taken the initiative for developing Thermal Power Projects in the state through Bihar Power Infrastructure Company (BPIC), a joint venture between Bihar State Power Holding Company Limited (BSPHCL) with IL&FS Energy Development Company Limited (IEDCL). BPIC and BSEB had identified a site near village Chausa in District Buxar for the development of 2x660 MW Coal based Thermal Power Project. SJVN, a schedule 'A' PSU and a joint venture of the Govt. of India and the State Govt. of HP, acquired the project through its subsidiary SJVN Thermal Pvt. Ltd. in 2013.

The proposed 1320 Buxar Thermal Power Project (2x660MW) power project was conceived to meet the energy deficit of Bihar state. As per the power purchase agreement 85% of the power generated at the proposed project will be made available to Bihar state for various uses. Due to the location advantage of the Project in terms of availability of water, power evacuation facilities and coal, the cost of power is expected to be competitive.

The proposed project would cater to the ever-increasing demand of electricity in the state of Bihar. It will also increase the availability of electricity in rural areas for agricultural purposes, small scale industries and subsequently helps in improving overall development in agricultural, industrial and infrastructural facilities.

#### **2.0 Long Term Vision for the Project:-**

The long-term vision of the proposed power project is sustainable power generation maintaining high standards of efficiency and financial strength, over the design life (25

years) and extended life of the project through suitable Renovation and Modernization Programmes from Time to Time and stated hereunder;

## **2.1 Vision for Project Site:-**

- To provide uninterrupted and quality power to the Bihar state grid to bridge the demand and supply gap
- Optimal utilization of land by maximizing electrical generation per unit area of the plant. Optimizing specific water consumption requirement for the plant processes to meet the norms for the thermal power projects prescribed by Ministry of Environment Forest and Climate Change (MoEF&CC). Continual improvement in efficiency and PLF through efficient operation and maintenance and Renovation and Modernization Programmes from Time to Time gaining extended life of the project
- Certification of Project with ISO: 9001, ISO 14001, OSHAS-18001, SA-8000 to implement best practices in operation of the plant.

### **2.2.1 Vision towards Technology Selection:-**

The proposed 1320 MW Buxar Thermal Power Project (2x660 MW) power plant based on super critical technology which is the best available technology for the operation of the proposed project. The main advantages of the technology are:

- High Thermal Efficiency, PLF;
- Lower fuel consumption;
- Reduced ash generation;
- Faster load-changes;
- Faster start up time;
- High part load efficiency and higher adaptability for sliding pressure operation

### **2.2.2 Vision Towards the Environmental Protection & Pollution Control:-**

To achieve better performance of the-1320 MW BTTP, the following pollution control and abatement measures are envisaged, in line with the environment clearance granted to the project by MoEF&CC:

- Recycle and Reuse of wastewater
- Adopting the good environmental management practices as per the applicable guidelines and achieving 100% compliance with regulations,

- 275 m multi-flue stack with ESP of more than 99.99 % efficiency which will be provided to control suspended particulate matter to less than 30 mg/Nm<sup>3</sup>, Providing quality fly ash (low carbon content and desired grain size). To enhance the fly ash utilization opportunities in the region, 20% of the fly ash will be provided to local brick manufacturers with no cost to encourage alternative brick manufacturing practices to conserve the natural clay soil that is being widely used by the local brick manufacturers.
- Utilization of technologies such as Flue Gas Desulphurization (FGD) and SCR to minimize ambient air pollution owing to the operation of the plant.
- Dry fly ash handling system and achieving 100% fly ash utilization as per the MOEF&CC fly ash utilization notification.
- Greenbelt will be developed in and around the plant site. Plantation of trees will also be encouraged in the nearby villages. Greenbelt will be developed with locally available plant species.
- Surveillance of all-important environmental parameters on a continuous basis and application of corrective measures Monitoring of all-important environmental parameters on a continuous basis and application of corrective measures in consultation with central and state government authorities.
- Implementation of rooftop solar power plant and rain water harvesting system at site to optimize the judicious use of resources.

### **2.3 Vision towards CSR:-**

- To become an integral part of the local communities and encouraging social, economic and cultural aspects in the region through a sustained and need based Corporate Social Responsibility programs
- CSR activities will be taken up to fulfill the basic requirements of the people in the area. The basic requirements of the community needs will be strengthened by extending health care; educational facilities will be improved.
- To participate in various CSR activities like infrastructure development, education, medical facilities, self-employment, community development and awareness programmes, vocational training in and around the project site.
- The proposed power plant will provide direct and indirect employment to many people based on their qualification, skill sets and experience



## बिहार राज्य प्रदूषण नियंत्रण पर्षद्

परिवेश भवन, प्लॉट न०-एन.एस-वी/२, औद्योगिक क्षेत्र,  
पाटलीपुत्रा, पटना-८०००१०

पत्रांक: 1386

पटना, दिनांक: 22-9-2021

प्रेषक

एस० चन्द्रशेखर, भा० न० सं०  
सदस्य सचिव

सेवा में,

श्री संजीव शूद,  
चीफ़ एक्जीक्यूटिव ऑफिसर,  
एसजेभीएन थर्मल (प्रा०) लि०,  
बक्सर ताप विद्युत परियोजना,  
परियोजना कार्यालय: दूसरी मंजिल, नव दुर्गा परिसर,  
कलेक्ट्रेट रोड, अम्बेदकर चौक, बक्सर-८०२१०३.

विषय: पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार के प्राधिकार के पत्र दिनांक 28.02.2017 द्वारा निर्गत पर्यावरणीय स्वीकृति के शर्त (सामान्य vii) के अनुपालन हेतु पर्यावरणीय वायु गुणवत्ता जाँच बिन्दु/स्थल (Location) निर्धारण के संबंध में।

प्रसंग: आपका पत्रांक STPL/08/01/15/2021-155 दिनांक 13.08.2021

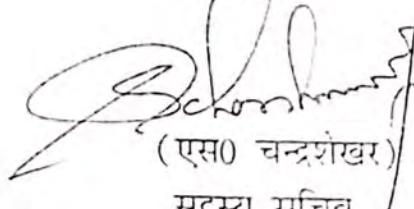
महाशय,

उपर्युक्त विषय एवं प्रसंग के संबंध में सूचित करना है कि प्रस्तावित निम्नलिखित चार लोकेशन पर्यावरणीय वायु जाँच हेतु स्वीकृत किया जाता है:-

1. North of colony & Towards West of Chimney;
2. North West of Rail Bulb and North West of Chimney;
3. East of Chimney and near Main Entry; and
4. North East of Chimney and East of Ash Dyke.

उपर्युक्त चार लोकेशन पर पर्यावरणीय वायु जाँच हेतु अगले एक वर्ष का एक्शन प्लान यथाशीघ्र भेजी जाय।

विश्वासिभाजन

  
(एस० चन्द्रशेखर)  
सदस्य सचिव  
३



**TEST REPORT**

ULR : TC1122025200019056F

Party Code : S/BHR/18922  
\*Issued to : SJVN Thermal Pvt. Ltd.

REPORT NO. : SE1108002825/N  
\*Customer Ref.No. : NS

Buxar Thermal Power Project, Main Office Building,  
Mohanpurwa, Akhouripur Gola. Chausa,  
Buxar-802114, Bihar .

\*Reference Date : NS  
Date of Sampling : 07/11/2025  
Date of Received : 08/11/2025  
Date of Issue : 15/11/2025  
Start Date of Analysis : 08/11/2025  
Date of Completion : 14/11/2025  
Environmental Condition : 25±2°C,RH50±15%  
Sample Condition : OK  
\*Sample Qty. : 6 Ltr.  
SOP/Sampling Plan : SIMA/ENV/SOP/024  
Test Method Deviation : NA  
Sample Collection : Sample Collected By Us

\*Sample Name : Ground Water

\*Sampling Location : STPL Office Complex

**RESULTS OF ANALYSIS**

Reference : IS 10500 -2012, (Reaff. 2023) Amendment No. 1,2 & 3

Sample Description : Clear colourless liquid

S.No.	Parameter	Units	Results	Acceptable Limits (as per IS:10500-2012)	Permissible Limits (as per IS:10500-2012)	Protocols	Detection Limit
<b>Organoleptic &amp; Physical Parameters</b>							
1.	Colour	Hazen	<2.0	Max. 5	Max. 15	IS:3025 (P-4)	NA
2.	Odour	NA	Agreeable	Agreeable	Agreeable	IS:3025 (P-5)	NA
3.	pH Value	NA	7.32	6.5 to 8.5	No Relaxation	IS:3025 (P-11)	NA
4.	Taste	NA	Agreeable	Agreeable	Agreeable	IS:3025 (P-7)	NA
5.	Total Dissolved Solids	mg/L	352	Max. 500	Max. 2000	IS:3025 (P-16)	NA
6.	Turbidity	NTU	<1.0	Max. 1	Max. 5	IS:3025 (P-10)	NA
<b>General Parameter</b>							
7.	Aluminium (as Al)	mg/L	BLQ	Max. 0.03	Max. 0.2	IS:3025 (P-65)	LOQ (0.01)
8.	Ammonia (as Total Ammonia-N)	mg/L	BDL	Max. 0.5	No Relaxation	IS:3025 (P-34)	0.1
9.	Anionic Detergents (as MBAS)	mg/L	BDL	Max. 0.2	Max. 1.0	IS:3025 (P-68)	0.1
10.	Barium (as Ba)	mg/L	BLQ	Max. 0.7	No Relaxation	IS:3025 (P-65)	LOQ (0.01)
11.	Boron (as B)	mg/L	BLQ	Max. 0.5	Max. 2.4	IS:3025 (P-65)	LOQ (0.05)
12.	Calcium (as Ca)	mg/L	56.0	Max. 75	Max. 200	IS:3025 (P-40)	NA



*Anshul Gupta*

Anshul Gupta  
Reviewed By

*Pratibha Rawat*

Pratibha Rawat  
Tech. Manager Micro

Authorized Signatory

*Diwakar Jha*

Diwakar Jha  
G.M Technical Environment

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TC-11220



## TEST REPORT

ULR : TC1122025200019056F

Party Code : S/BHR/18922

REPORT NO.

: SE1108002825/N

S.No.	Parameter	Units	Results	Acceptable Limits (as per IS:10500-2012)	Permissible Limits (as per IS:10500-2012)	Protocols	Detection Limit
13.	Chloramines (as Cl <sub>2</sub> )	mg/L	BDL	Max. 4.0	No Relaxation	IS:3025 (P-26)	0.1
14.	Chloride (as Cl)	mg/L	52.8	Max. 250	Max. 1000	IS:3025 (P-32)	NA
15.	Copper (as Cu)	mg/L	BLQ	Max. 0.05	Max. 1.5	IS:3025 (P-65)	LOQ (0.005)
16.	Fluoride (as F)	mg/L	BDL	Max. 1.0	Max. 1.5	APHA - 4500 F-D	0.05
17.	Free residual chlorine (as Cl <sub>2</sub> )	mg/L	BDL	Min. 0.2	Min. 1.0	IS:3025 (P-26)	0.1
18.	Iron (as Fe)	mg/L	BLQ	Max. 1.0	No Relaxation	IS:3025 (P-65)	LOQ (0.01)
19.	Magnesium (as Mg)	mg/L	14.1	Max. 30	Max. 100	IS:3025 (P-46)	NA
20.	Manganese (as Mn)	mg/L	BLQ	Max. 0.1	Max. 0.3	IS:3025 (P-65)	LOQ (0.01)
21.	Mineral Oil	mg/L	BDL	Max. 1.0	No Relaxation	Cl-6 of IS:3025 (P-39)	0.1
22.	Nitrate (as NO <sub>3</sub> )	mg/L	BDL	Max. 45	No Relaxation	IS:3025 (P-34)	0.05
23.	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH)	mg/L	BDL	Max. 0.001	Max. 0.002	IS:3025 (P-43)	0.001
24.	Selenium (as Se)	mg/L	BLQ	Max. 0.01	No Relaxation	IS:3025 (P-65)	LOQ (0.005)
25.	Silver (as Ag)	mg/L	BLQ	Max. 0.1	No Relaxation	IS:3025 (P-65)	LOQ (0.005)
26.	Sulphate (as SO <sub>4</sub> )	mg/L	6.8	Max. 200	Max. 400	IS:3025 (P-24)	NA
27.	Sulphide (as H <sub>2</sub> S)	mg/L	BDL	Max. 0.05	No Relaxation	IS:3025 (P-29)	0.02
28.	Total Alkalinity (as CaCO <sub>3</sub> )	mg/L	172.2	Max. 200	Max. 600	IS:3025 (P-23)	NA
29.	Total Hardness (as CaCO <sub>3</sub> )	mg/L	197.8	Max. 200	Max. 600	IS:3025 (P-21)	NA
30.	Zinc (as Zn)	mg/L	BLQ	Max. 5.0	Max. 15	IS:3025 (P-65)	LOQ (0.05)
<b>Toxic Substance</b>							
31.	Cadmium (as Cd)	mg/L	BLQ	Max. 0.003	No Relaxation	IS:3025 (P-65)	LOQ (0.002)
32.	Cyanide (as CN)	mg/L	BDL	Max. 0.05	No Relaxation	IS:3025 (P-27)	0.05
33.	Lead (as Pb)	mg/L	BLQ	Max. 0.01	No Relaxation	IS:3025 (P-65)	LOQ (0.005)
34.	Mercury (as Hg)	mg/L	BLQ	Max. 0.001	No Relaxation	IS:3025 (P-65)	LOQ (0.001)
35.	Molybdenum (as MO)	mg/L	BLQ	Max. 0.07	No Relaxation	IS:3025 (P-65)	LOQ (0.01)
36.	Nickel (as Ni)	mg/L	BLQ	Max. 0.02	No Relaxation	IS:3025 (P-65)	LOQ (0.005)
37.	Total Arsenic (as As)	mg/L	BLQ	Max. 0.01	No Relaxation	IS:3025 (P-65)	LOQ (0.005)
38.	Total Chromium (as Cr)	mg/L	BLQ	Max. 0.05	No Relaxation	IS:3025 (P-65)	LOQ (0.005)
39.	Polychlorinated Biphenyls	mg/L	BLQ	Max. 0.0005	No Relaxation	SIMA/INS/STP/001	LOQ (0.000025)



Anshul Gupta  
Reviewed By

Pratibha Rawat  
Tech. Manager Micro

Authorized Signatory

Diwakar Jha  
G.M Technical Environment

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TC-11220



## TEST REPORT

ULR : TC1122025200019056F

Party Code : S/BHR/18922

REPORT NO.

: SE1108002825/N

S.No.	Parameter	Units	Results	Acceptable Limits (as per IS:10500-2012)	Permissible Limits (as per IS:10500-2012)	Protocols	Detection Limit
40.	Polynuclear Aromatic Hydrocarbons (as PAH)	mg/L	BLQ	Max. 0.0001	No Relaxation	SIMA/INS/STP/001	LOQ (0.000025)
<b>Pesticides Residue</b>							
41.	2,4' DDD	µg/L	BLQ	Max. 1.0	NA	SIMA/INS/STP/001	LOQ (0.01)
42.	2,4' DDE	µg/L	BLQ	Max. 1.0	NA	SIMA/INS/STP/001	LOQ (0.01)
43.	2,4' DDT	µg/L	BLQ	Max. 1.0	NA	SIMA/INS/STP/001	LOQ (0.01)
44.	2,4-Dichlorophenoxy Acetic Acid	µg/L	BLQ	Max. 30	NA	SIMA/INS/STP/001	LOQ (0.01)
45.	4,4' DDD	µg/L	BLQ	Max. 1.0	NA	SIMA/INS/STP/001	LOQ (0.01)
46.	4,4' DDE	µg/L	BLQ	Max. 1.0	NA	SIMA/INS/STP/001	LOQ (0.01)
47.	4,4' DDT	µg/L	BLQ	Max. 1.0	NA	SIMA/INS/STP/001	LOQ (0.01)
48.	Alachlor	µg/L	BLQ	Max. 20	NA	SIMA/INS/STP/001	LOQ (0.01)
49.	Aldrin	µg/L	BLQ	Max. 0.03	NA	SIMA/INS/STP/001	LOQ (0.01)
50.	Alpha endosulfan	µg/L	BLQ	Max. 0.4	NA	SIMA/INS/STP/001	LOQ (0.01)
51.	Alpha HCH	µg/L	BLQ	Max. 0.01	NA	SIMA/INS/STP/001	LOQ (0.005)
52.	Atrazine	µg/L	BLQ	Max. 2.0	NA	SIMA/INS/STP/001	LOQ (0.01)
53.	Beta endosulfan	µg/L	BLQ	Max. 0.4	NA	SIMA/INS/STP/001	LOQ (0.01)
54.	Beta HCH	µg/L	BLQ	Max. 0.04	NA	SIMA/INS/STP/001	LOQ (0.01)
55.	Butachlor	µg/L	BLQ	Max. 125	NA	SIMA/INS/STP/001	LOQ (0.01)
56.	Chlorpyrifos	µg/L	BLQ	Max. 30	NA	SIMA/INS/STP/001	LOQ (0.01)
57.	Delta HCH	µg/L	BLQ	Max. 0.04	NA	SIMA/INS/STP/001	LOQ (0.01)
58.	Dieldrin	µg/L	BLQ	Max. 0.03	NA	SIMA/INS/STP/001	LOQ (0.01)
59.	Endosulfan sulphate	µg/L	BLQ	Max. 0.4	NA	SIMA/INS/STP/001	LOQ (0.01)
60.	Ethion	µg/L	BLQ	Max. 3.0	NA	SIMA/INS/STP/001	LOQ (0.01)
61.	Gamma-HCH (Lindane)	µg/L	BLQ	Max. 2.0	NA	SIMA/INS/STP/001	LOQ (0.01)
62.	Isoproturon	µg/L	BLQ	Max. 9.0	NA	SIMA/INS/STP/001	LOQ (0.01)
63.	Malathion	µg/L	BLQ	Max. 190	NA	SIMA/INS/STP/001	LOQ (0.01)
64.	Methyl Parathion	µg/L	BLQ	Max. 0.3	NA	SIMA/INS/STP/001	LOQ (0.01)
65.	Monocrotophos	µg/L	BLQ	Max. 1.0	NA	SIMA/INS/STP/001	LOQ (0.01)
66.	Phorate	µg/L	BLQ	Max. 2.0	NA	SIMA/INS/STP/001	LOQ (0.01)



Anshul Gupta  
Reviewed By

Pratibha Rawat  
Tech. Manager Micro

Authorized Signatory

Diwakar Jha  
G.M Technical Environment

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TC-11220



## TEST REPORT

ULR : TC1122025200019056F

Party Code : S/BHR/18922

REPORT NO. : SE1108002825/N

S.No.	Parameter	Units	Results	Acceptable Limits (as per IS:10500-2012)	Permissible Limits (as per IS:10500-2012)	Protocols	Detection Limit
<b>Trihalomethanes</b>							
67.	Bromodichloromethane	mg/L	BLQ	Max. 0.06	NA	SIMA/INS/STP/002	LOQ (0.02)
68.	Bromoform	mg/L	BLQ	Max. 0.1	NA	SIMA/INS/STP/002	LOQ (0.02)
69.	Chloroform	mg/L	BLQ	Max. 0.2	NA	SIMA/INS/STP/002	LOQ (0.02)
70.	Dibromochloromethane	mg/L	BLQ	Max. 0.1	NA	SIMA/INS/STP/002	LOQ (0.02)
<b>Microbiological quality of water</b>							
71.	E.Coli	per 100 ml	Absent	Shall not be detectable in any 100 ml sample	NA	IS15185: 2016	NA
72.	Total Coliform	per 100 ml	Absent	Shall not be detectable in any 100 ml sample	NA	IS15185: 2016	NA

The above tested parameters meets the requirement of IS:10500-2012

Specification (Acceptable Limit)

NA- Not Applicable, BDL- Below Detection Limit, BLQ- Below Limit of Quantification, LOQ- Limit of Quantification

--- End of Test Report ---



*Anshul Gupta*

Anshul Gupta  
Reviewed By

*Pratibha Rawat*

Pratibha Rawat  
Tech. Manager Micro

Authorized Signatory

*Diwakar Jha*

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TC-11220



## TEST REPORT

ULR : TC1122025200019055F

Party Code : S/BHR/18922  
\*Issued to : SJVN Thermal Pvt. Ltd.

REPORT NO. : SE1108002925/N

\*Customer Ref.No. : NS

Buxar Thermal Power Project, Main Office Building,  
Mohanpurwa, Akhouripur Gola, Chausa,  
Buxar-802114, Bihar .

\*Reference Date : NS

Date of Sampling : 07/11/2025

Date of Received : 08/11/2025

Date of Issue : 15/11/2025

Start Date of Analysis : 08/11/2025

Date of Completion : 14/11/2025

Environmental Condition : 25±2°C, RH50±15%

Sample Condition : OK

\*Sample Name : Ground Water

\*Sample Qty. : 6 Ltr.

\*Sampling Location : STPL Under Construction

SOP/Sampling Plan : SIMA/ENV/SOP/024

Test Method Deviation : NA

Sample Collection : Sample Collected By Us

### RESULTS OF ANALYSIS

Reference : IS 10500 -2012, (Reaff. 2023) Amendment No. 1,2 & 3

Sample Description : Clear colourless liquid

S.No.	Parameter	Units	Results	Acceptable Limits (as per IS:10500-2012)	Permissible Limits (as per IS:10500-2012)	Protocols	Detection Limit
<b>Organoleptic &amp; Physical Parameters</b>							
1.	Colour	Hazen	<2.0	Max. 5	Max. 15	IS:3025 (P-4)	NA
2.	Odour	NA	Agreeable	Agreeable	Agreeable	IS:3025 (P-5)	NA
3.	pH Value	NA	7.53	6.5 to 8.5	No Relaxation	IS:3025 (P-11)	NA
4.	Taste	NA	Agreeable	Agreeable	Agreeable	IS:3025 (P-7)	NA
5.	Total Dissolved Solids	mg/L	452	Max. 500	Max. 2000	IS:3025 (P-16)	NA
6.	Turbidity	NTU	<1.0	Max. 1	Max. 5	IS:3025 (P-10)	NA
<b>General Parameter</b>							
7.	Aluminium (as Al)	mg/L	BLQ	Max. 0.03	Max. 0.2	IS:3025 (P-65)	LOQ (0.01)
8.	Ammonia (as Total Ammonia-N)	mg/L	BDL	Max. 0.5	No Relaxation	IS:3025 (P-34)	0.1
9.	Anionic Detergents (as MBAS)	mg/L	BDL	Max. 0.2	Max. 1.0	IS:3025 (P-68)	0.1
10.	Barium (as Ba)	mg/L	BLQ	Max. 0.7	No Relaxation	IS:3025 (P-65)	LOQ (0.01)
11.	Boron (as B)	mg/L	BLQ	Max. 0.5	Max. 2.4	IS:3025 (P-65)	LOQ (0.05)
12.	Calcium (as Ca)	mg/L	68.4	Max. 75	Max. 200	IS:3025 (P-40)	NA



*Anshul Gupta*

Anshul Gupta  
Reviewed By

*Pratibha Rawat*

Pratibha Rawat  
Tech. Manager Micro

Authorized Signatory

*Diwakar Jha*

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TC-11220



## TEST REPORT

ULR : TC1122025200019055F

Party Code : S/BHR/18922

REPORT NO.

: SE1108002925/N

S.No.	Parameter	Units	Results	Acceptable Limits (as per IS:10500-2012)	Permissible Limits (as per IS:10500-2012)	Protocols	Detection Limit
13.	Chloramines (as Cl <sub>2</sub> )	mg/L	BDL	Max. 4.0	No Relaxation	IS:3025 (P-26)	0.1
14.	Chloride (as Cl)	mg/L	74.4	Max. 250	Max. 1000	IS:3025 (P-32)	NA
15.	Copper (as Cu)	mg/L	BLQ	Max. 0.05	Max. 1.5	IS:3025 (P-65)	LOQ (0.005)
16.	Fluoride (as F)	mg/L	BDL	Max. 1.0	Max. 1.5	APHA - 4500 F-D	0.05
17.	Free residual chlorine (as Cl <sub>2</sub> )	mg/L	BDL	Min. 0.2	Min. 1.0	IS:3025 (P-26)	0.1
18.	Iron (as Fe)	mg/L	BLQ	Max. 1.0	No Relaxation	IS:3025 (P-65)	LOQ (0.01)
19.	Magnesium (as Mg)	mg/L	11.3	Max. 30	Max. 100	IS:3025 (P-46)	NA
20.	Manganese (as Mn)	mg/L	BLQ	Max. 0.1	Max. 0.3	IS:3025 (P-65)	LOQ (0.01)
21.	Mineral Oil	mg/L	BDL	Max. 1.0	No Relaxation	Cl-6 of IS:3025 (P-39)	0.1
22.	Nitrate (as NO <sub>3</sub> )	mg/L	BDL	Max. 45	No Relaxation	IS:3025 (P-34)	0.05
23.	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH)	mg/L	BDL	Max. 0.001	Max. 0.002	IS:3025 (P-43)	0.001
24.	Selenium (as Se)	mg/L	BLQ	Max. 0.01	No Relaxation	IS:3025 (P-65)	LOQ (0.005)
25.	Silver (as Ag)	mg/L	BLQ	Max. 0.1	No Relaxation	IS:3025 (P-65)	LOQ (0.005)
26.	Sulphate (as SO <sub>4</sub> )	mg/L	15.1	Max. 200	Max. 400	IS:3025 (P-24)	NA
27.	Sulphide (as H <sub>2</sub> S)	mg/L	BDL	Max. 0.05	No Relaxation	IS:3025 (P-29)	0.02
28.	Total Alkalinity (as CaCO <sub>3</sub> )	mg/L	287	Max. 200	Max. 600	IS:3025 (P-23)	NA
29.	Total Hardness (as CaCO <sub>3</sub> )	mg/L	217	Max. 200	Max. 600	IS:3025 (P-21)	NA
30.	Zinc (as Zn)	mg/L	BLQ	Max. 5.0	Max. 15	IS:3025 (P-65)	LOQ (0.05)
<b>Toxic Substance</b>							
31.	Cadmium (as Cd)	mg/L	BLQ	Max. 0.003	No Relaxation	IS:3025 (P-65)	LOQ (0.002)
32.	Cyanide (as CN)	mg/L	BDL	Max. 0.05	No Relaxation	IS:3025 (P-27)	0.05
33.	Lead (as Pb)	mg/L	BLQ	Max. 0.01	No Relaxation	IS:3025 (P-65)	LOQ (0.005)
34.	Mercury (as Hg)	mg/L	BLQ	Max. 0.001	No Relaxation	IS:3025 (P-65)	LOQ (0.001)
35.	Molybdenum (as MO)	mg/L	BLQ	Max. 0.07	No Relaxation	IS:3025 (P-65)	LOQ (0.01)
36.	Nickel (as Ni)	mg/L	BLQ	Max. 0.02	No Relaxation	IS:3025 (P-65)	LOQ (0.005)
37.	Total Arsenic (as As)	mg/L	BLQ	Max. 0.01	No Relaxation	IS:3025 (P-65)	LOQ (0.005)
38.	Total Chromium (as Cr)	mg/L	BLQ	Max. 0.05	No Relaxation	IS:3025 (P-65)	LOQ (0.005)
39.	Polychlorinated Biphenyls	mg/L	BLQ	Max. 0.0005	No Relaxation	SIMA/INS/STP/001	LOQ (0.000025)



*(Signature)*

Anshul Gupta  
Reviewed By

*(Signature)*

Pratibha Rawat  
Tech. Manager Micro

Authorized Signatory

*(Signature)*

Diwakar Jha  
G.M Technical Environment

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Phone : +(91)-(011) 43854300

Email : reports@simalab.com

CIN No : U74899DL1988PTC031785

Website : www.simalab.net | www.simalab.com



TC-11220



## TEST REPORT

ULR : TC1122025200019055F

Party Code : S/BHR/18922

REPORT NO.

: SE1108002925/N

S.No.	Parameter	Units	Results	Acceptable Limits (as per IS:10500-2012)	Permissible Limits (as per IS:10500-2012)	Protocols	Detection Limit
40.	Polynuclear Aromatic Hydrocarbons (as PAH)	mg/L	BLQ	Max. 0.0001	No Relaxation	SIMA/INS/STP/001	LOQ (0.000025)
<b>Pesticides Residue</b>							
41.	2,4' DDD	µg/L	BLQ	Max. 1.0	NA	SIMA/INS/STP/001	LOQ (0.01)
42.	2,4' DDE	µg/L	BLQ	Max. 1.0	NA	SIMA/INS/STP/001	LOQ (0.01)
43.	2,4' DDT	µg/L	BLQ	Max. 1.0	NA	SIMA/INS/STP/001	LOQ (0.01)
44.	2,4-Dichlorophenoxy Acetic Acid	µg/L	BLQ	Max. 30	NA	SIMA/INS/STP/001	LOQ (0.01)
45.	4,4' DDD	µg/L	BLQ	Max. 1.0	NA	SIMA/INS/STP/001	LOQ (0.01)
46.	4,4' DDE	µg/L	BLQ	Max. 1.0	NA	SIMA/INS/STP/001	LOQ (0.01)
47.	4,4' DDT	µg/L	BLQ	Max. 1.0	NA	SIMA/INS/STP/001	LOQ (0.01)
48.	Alachlor	µg/L	BLQ	Max. 20	NA	SIMA/INS/STP/001	LOQ (0.01)
49.	Aldrin	µg/L	BLQ	Max. 0.03	NA	SIMA/INS/STP/001	LOQ (0.01)
50.	Alpha endosulfan	µg/L	BLQ	Max. 0.4	NA	SIMA/INS/STP/001	LOQ (0.01)
51.	Alpha HCH	µg/L	BLQ	Max. 0.01	NA	SIMA/INS/STP/001	LOQ (0.005)
52.	Atrazine	µg/L	BLQ	Max. 2.0	NA	SIMA/INS/STP/001	LOQ (0.01)
53.	Beta endosulfan	µg/L	BLQ	Max. 0.4	NA	SIMA/INS/STP/001	LOQ (0.01)
54.	Beta HCH	µg/L	BLQ	Max. 0.04	NA	SIMA/INS/STP/001	LOQ (0.01)
55.	Butachlor	µg/L	BLQ	Max. 125	NA	SIMA/INS/STP/001	LOQ (0.01)
56.	Chlorpyrifos	µg/L	BLQ	Max. 30	NA	SIMA/INS/STP/001	LOQ (0.01)
57.	Delta HCH	µg/L	BLQ	Max. 0.04	NA	SIMA/INS/STP/001	LOQ (0.01)
58.	Dieldrin	µg/L	BLQ	Max. 0.03	NA	SIMA/INS/STP/001	LOQ (0.01)
59.	Endosulfan sulphate	µg/L	BLQ	Max. 0.4	NA	SIMA/INS/STP/001	LOQ (0.01)
60.	Ethion	µg/L	BLQ	Max. 3.0	NA	SIMA/INS/STP/001	LOQ (0.01)
61.	Gamma-HCH (Lindane)	µg/L	BLQ	Max. 2.0	NA	SIMA/INS/STP/001	LOQ (0.01)
62.	Isoproturon	µg/L	BLQ	Max. 9.0	NA	SIMA/INS/STP/001	LOQ (0.01)
63.	Malathion	µg/L	BLQ	Max. 190	NA	SIMA/INS/STP/001	LOQ (0.01)
64.	Methyl Parathion	µg/L	BLQ	Max. 0.3	NA	SIMA/INS/STP/001	LOQ (0.01)
65.	Monocrotophos	µg/L	BLQ	Max. 1.0	NA	SIMA/INS/STP/001	LOQ (0.01)
66.	Phorate	µg/L	BLQ	Max. 2.0	NA	SIMA/INS/STP/001	LOQ (0.01)



Anshul Gupta  
Reviewed By

Pratibha Rawat  
Tech. Manager Micro

Authorized Signatory

Diwakar Jha  
G.M Technical Environment

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TC-11220



## TEST REPORT

ULR : TC1122025200019055F

Party Code : S/BHR/18922

REPORT NO. : SE1108002925/N

S.No.	Parameter	Units	Results	Acceptable Limits (as per IS:10500-2012)	Permissible Limits (as per IS:10500-2012)	Protocols	Detection Limit
<b>Trihalomethanes</b>							
67.	Bromodichloromethane	mg/L	BLQ	Max. 0.06	NA	SIMA/INS/STP/002	LOQ (0.02)
68.	Bromoform	mg/L	BLQ	Max. 0.1	NA	SIMA/INS/STP/002	LOQ (0.02)
69.	Chloroform	mg/L	BLQ	Max. 0.2	NA	SIMA/INS/STP/002	LOQ (0.02)
70.	Dibromochloromethane	mg/L	BLQ	Max. 0.1	NA	SIMA/INS/STP/002	LOQ (0.02)
<b>Microbiological quality of water</b>							
71.	E.Coli	per 100 ml	Absent	Shall not be detectable in any 100 ml sample	NA	IS15185: 2016	NA
72.	Total Coliform	per 100 ml	Absent	Shall not be detectable in any 100 ml sample	NA	IS15185: 2016	NA

The above tested parameters meets the requirement of IS:10500-2012

Specification (Acceptable Limit), Except Sr.No.28,29

NA- Not Applicable, BDL- Below Detection Limit, BLQ- Below Limit of Quantification, LOQ- Limit of Quantification

--- End of Test Report ---



*(Signature)*

Anshul Gupta  
Reviewed By

*(Signature)*

Pratibha Rawat  
Tech. Manager Micro

Authorized Signatory

*(Signature)*

Diwakar Jha  
G.M Technical Environment

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Website : www.simalab.net | www.simalab.com



TC-11220



## TEST REPORT

ULR : TC1122025200019057F

Party Code : S/BHR/18922  
\*Issued to : SJVN Thermal Pvt. Ltd.

REPORT NO. : SE1108003025/N

\*Customer Ref.No. : NS

Buxar Thermal Power Project, Main Office Building,  
Mohanpurwa, Akhouripur Gola. Chausa,  
Buxar-802114, Bihar .

\*Reference Date : NS

Date of Sampling : 07/11/2025

Date of Received : 08/11/2025

Date of Issue : 15/11/2025

Start Date of Analysis : 08/11/2025

Date of Completion : 14/11/2025

Environmental Condition : 25±2°C, RH50±15%

Sample Condition : OK

\*Sample Name : Ground Water

\*Sample Qty. : 6 Ltr.

\*Sampling Location : Labour Colony-1

SOP/Sampling Plan : SIMA/ENV/SOP/024

Test Method Deviation : NA

Sample Collection : Sample Collected By Us

### RESULTS OF ANALYSIS

Reference : IS 10500 -2012, (Reaff. 2023) Amendment No. 1,2 & 3

Sample Description : Clear colourless liquid

S.No.	Parameter	Units	Results	Acceptable Limits (as per IS:10500-2012)	Permissible Limits (as per IS:10500-2012)	Protocols	Detection Limit
<b>Organoleptic &amp; Physical Parameters</b>							
1.	Colour	Hazen	<2.0	Max. 5	Max. 15	IS:3025 (P-4)	NA
2.	Odour	NA	Agreeable	Agreeable	Agreeable	IS:3025 (P-5)	NA
3.	pH Value	NA	7.46	6.5 to 8.5	No Relaxation	IS:3025 (P-11)	NA
4.	Taste	NA	Agreeable	Agreeable	Agreeable	IS:3025 (P-7)	NA
5.	Total Dissolved Solids	mg/L	355	Max. 500	Max. 2000	IS:3025 (P-16)	NA
6.	Turbidity	NTU	<1.0	Max. 1	Max. 5	IS:3025 (P-10)	NA
<b>General Parameter</b>							
7.	Aluminium (as Al)	mg/L	BLQ	Max. 0.03	Max. 0.2	IS:3025 (P-65)	LOQ (0.01)
8.	Ammonia (as Total Ammonia-N)	mg/L	BDL	Max. 0.5	No Relaxation	IS:3025 (P-34)	0.1
9.	Anionic Detergents (as MBAS)	mg/L	BDL	Max. 0.2	Max. 1.0	IS:3025 (P-68)	0.1
10.	Barium (as Ba)	mg/L	BLQ	Max. 0.7	No Relaxation	IS:3025 (P-65)	LOQ (0.01)
11.	Boron (as B)	mg/L	BLQ	Max. 0.5	Max. 2.4	IS:3025 (P-65)	LOQ (0.05)
12.	Calcium (as Ca)	mg/L	49.8	Max. 75	Max. 200	IS:3025 (P-40)	NA



*Anshul Gupta*

Anshul Gupta  
Reviewed By

*Pratibha Rawat*

Pratibha Rawat  
Tech. Manager Micro

Authorized Signatory

*Diwakar Jha*

Diwakar Jha  
G.M Technical Environment

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TC-11220



## TEST REPORT

ULR : TC1122025200019057F

Party Code : S/BHR/18922

REPORT NO.

: SE1108003025/N

S.No.	Parameter	Units	Results	Acceptable Limits (as per IS:10500-2012)	Permissible Limits (as per IS:10500-2012)	Protocols	Detection Limit
13.	Chloramines (as Cl <sub>2</sub> )	mg/L	BDL	Max. 4.0	No Relaxation	IS:3025 (P-26)	0.1
14.	Chloride (as Cl)	mg/L	109.6	Max. 250	Max. 1000	IS:3025 (P-32)	NA
15.	Copper (as Cu)	mg/L	BLQ	Max. 0.05	Max. 1.5	IS:3025 (P-65)	LOQ (0.005)
16.	Fluoride (as F)	mg/L	BDL	Max. 1.0	Max. 1.5	APHA - 4500 F-D	0.05
17.	Free residual chlorine (as Cl <sub>2</sub> )	mg/L	BDL	Min. 0.2	Min. 1.0	IS:3025 (P-26)	0.1
18.	Iron (as Fe)	mg/L	BLQ	Max. 1.0	No Relaxation	IS:3025 (P-65)	LOQ (0.01)
19.	Magnesium (as Mg)	mg/L	19.8	Max. 30	Max. 100	IS:3025 (P-46)	NA
20.	Manganese (as Mn)	mg/L	BLQ	Max. 0.1	Max. 0.3	IS:3025 (P-65)	LOQ (0.01)
21.	Mineral Oil	mg/L	BDL	Max. 1.0	No Relaxation	CI-6 of IS:3025 (P-39)	0.1
22.	Nitrate (as NO <sub>3</sub> )	mg/L	BDL	Max. 45	No Relaxation	IS:3025 (P-34)	0.05
23.	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH)	mg/L	BDL	Max. 0.001	Max. 0.002	IS:3025 (P-43)	0.001
24.	Selenium (as Se)	mg/L	BLQ	Max. 0.01	No Relaxation	IS:3025 (P-65)	LOQ (0.005)
25.	Silver (as Ag)	mg/L	BLQ	Max. 0.1	No Relaxation	IS:3025 (P-65)	LOQ (0.005)
26.	Sulphate (as SO <sub>4</sub> )	mg/L	7.1	Max. 200	Max. 400	IS:3025 (P-24)	NA
27.	Sulphide (as H <sub>2</sub> S)	mg/L	BDL	Max. 0.05	No Relaxation	IS:3025 (P-29)	0.02
28.	Total Alkalinity (as CaCO <sub>3</sub> )	mg/L	213.2	Max. 200	Max. 600	IS:3025 (P-23)	NA
29.	Total Hardness (as CaCO <sub>3</sub> )	mg/L	205.6	Max. 200	Max. 600	IS:3025 (P-21)	NA
30.	Zinc (as Zn)	mg/L	BLQ	Max. 5.0	Max. 15	IS:3025 (P-65)	LOQ (0.05)

### Toxic Substance

31.	Cadmium (as Cd)	mg/L	BLQ	Max. 0.003	No Relaxation	IS:3025 (P-65)	LOQ (0.002)
32.	Cyanide (as CN)	mg/L	BDL	Max. 0.05	No Relaxation	IS:3025 (P-27)	0.05
33.	Lead (as Pb)	mg/L	BLQ	Max. 0.01	No Relaxation	IS:3025 (P-65)	LOQ (0.005)
34.	Mercury (as Hg)	mg/L	BLQ	Max. 0.001	No Relaxation	IS:3025 (P-65)	LOQ (0.001)
35.	Molybdenum (as MO)	mg/L	BLQ	Max. 0.07	No Relaxation	IS:3025 (P-65)	LOQ (0.01)
36.	Nickel (as Ni)	mg/L	BLQ	Max. 0.02	No Relaxation	IS:3025 (P-65)	LOQ (0.005)
37.	Total Arsenic (as As)	mg/L	BLQ	Max. 0.01	No Relaxation	IS:3025 (P-65)	LOQ (0.005)
38.	Total Chromium (as Cr)	mg/L	BLQ	Max. 0.05	No Relaxation	IS:3025 (P-65)	LOQ (0.005)
39.	Polychlorinated Biphenyls	mg/L	BLQ	Max. 0.0005	No Relaxation	SIMA/INS/STP/001	LOQ (0.000025)



*(Signature)*

Anshul Gupta  
Reviewed By

*(Signature)*

Pratibha Rawat  
Tech. Manager Micro

Authorized Signatory

*(Signature)*

Djwakar Jha  
G.M Technical Environment

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TC-11220



## TEST REPORT

ULR : TC1122025200019057F

Party Code : S/BHR/18922

REPORT NO.

: SE1108003025/N

S.No.	Parameter	Units	Results	Acceptable Limits (as per IS:10500-2012)	Permissible Limits (as per IS:10500-2012)	Protocols	Detection Limit
40.	Polynuclear Aromatic Hydrocarbons (as PAH)	mg/L	BLQ	Max. 0.0001	No Relaxation	SIMA/INS/STP/001	LOQ (0.000025)
<b>Pesticides Residue</b>							
41.	2,4' DDD	µg/L	BLQ	Max. 1.0	NA	SIMA/INS/STP/001	LOQ (0.01)
42.	2,4' DDE	µg/L	BLQ	Max. 1.0	NA	SIMA/INS/STP/001	LOQ (0.01)
43.	2,4' DDT	µg/L	BLQ	Max. 1.0	NA	SIMA/INS/STP/001	LOQ (0.01)
44.	2,4-Dichlorophenoxy Acetic Acid	µg/L	BLQ	Max. 30	NA	SIMA/INS/STP/001	LOQ (0.01)
45.	4,4' DDD	µg/L	BLQ	Max. 1.0	NA	SIMA/INS/STP/001	LOQ (0.01)
46.	4,4' DDE	µg/L	BLQ	Max. 1.0	NA	SIMA/INS/STP/001	LOQ (0.01)
47.	4,4' DDT	µg/L	BLQ	Max. 1.0	NA	SIMA/INS/STP/001	LOQ (0.01)
48.	Alachlor	µg/L	BLQ	Max. 20	NA	SIMA/INS/STP/001	LOQ (0.01)
49.	Aldrin	µg/L	BLQ	Max. 0.03	NA	SIMA/INS/STP/001	LOQ (0.01)
50.	Alpha endosulfan	µg/L	BLQ	Max. 0.4	NA	SIMA/INS/STP/001	LOQ (0.01)
51.	Alpha HCH	µg/L	BLQ	Max. 0.01	NA	SIMA/INS/STP/001	LOQ (0.005)
52.	Atrazine	µg/L	BLQ	Max. 2.0	NA	SIMA/INS/STP/001	LOQ (0.01)
53.	Beta endosulfan	µg/L	BLQ	Max. 0.4	NA	SIMA/INS/STP/001	LOQ (0.01)
54.	Beta HCH	µg/L	BLQ	Max. 0.04	NA	SIMA/INS/STP/001	LOQ (0.01)
55.	Butachlor	µg/L	BLQ	Max. 125	NA	SIMA/INS/STP/001	LOQ (0.01)
56.	Chlorpyrifos	µg/L	BLQ	Max. 30	NA	SIMA/INS/STP/001	LOQ (0.01)
57.	Delta HCH	µg/L	BLQ	Max. 0.04	NA	SIMA/INS/STP/001	LOQ (0.01)
58.	Dieldrin	µg/L	BLQ	Max. 0.03	NA	SIMA/INS/STP/001	LOQ (0.01)
59.	Endosulfan sulphate	µg/L	BLQ	Max. 0.4	NA	SIMA/INS/STP/001	LOQ (0.01)
60.	Ethion	µg/L	BLQ	Max. 3.0	NA	SIMA/INS/STP/001	LOQ (0.01)
61.	Gamma-HCH (Lindane)	µg/L	BLQ	Max. 2.0	NA	SIMA/INS/STP/001	LOQ (0.01)
62.	Isoproturon	µg/L	BLQ	Max. 9.0	NA	SIMA/INS/STP/001	LOQ (0.01)
63.	Malathion	µg/L	BLQ	Max. 190	NA	SIMA/INS/STP/001	LOQ (0.01)
64.	Methyl Parathion	µg/L	BLQ	Max. 0.3	NA	SIMA/INS/STP/001	LOQ (0.01)
65.	Monocrotophos	µg/L	BLQ	Max. 1.0	NA	SIMA/INS/STP/001	LOQ (0.01)
66.	Phorate	µg/L	BLQ	Max. 2.0	NA	SIMA/INS/STP/001	LOQ (0.01)



*(Signature)*

Anshul Gupta  
Reviewed By

*(Signature)*

Pratibha Rawat  
Tech. Manager Micro

Authorized Signatory

*(Signature)*

Diwakar Jha  
G.M Technical Environment

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CIN No : U74899DL1988PTC031785

Website : www.simalab.net | www.simalab.com



TC-11220



## TEST REPORT

ULR : TC1122025200019057F

Party Code : S/BHR/18922

REPORT NO.

: SE1108003025/N

S.No.	Parameter	Units	Results	Acceptable Limits (as per IS:10500-2012)	Permissible Limits (as per IS:10500-2012)	Protocols	Detection Limit
<b>Trihalomethanes</b>							
67.	Bromodichloromethane	mg/L	BLQ	Max. 0.06	NA	SIMA/INS/STP/002	LOQ (0.02)
68.	Bromoform	mg/L	BLQ	Max. 0.1	NA	SIMA/INS/STP/002	LOQ (0.02)
69.	Chloroform	mg/L	BLQ	Max. 0.2	NA	SIMA/INS/STP/002	LOQ (0.02)
70.	Dibromochloromethane	mg/L	BLQ	Max. 0.1	NA	SIMA/INS/STP/002	LOQ (0.02)
<b>Microbiological quality of water</b>							
71.	E.Coli	per 100 ml	Absent	Shall not be detectable in any 100 ml sample	NA	IS15185: 2016	NA
72.	Total Coliform	per 100 ml	Absent	Shall not be detectable in any 100 ml sample	NA	IS15185: 2016	NA

The above tested parameters meets the requirement of IS:10500-2012

Specification (Acceptable Limit), Except Sr.No.28,29

NA- Not Applicable, BDL- Below Detection Limit, BLQ- Below Limit of Quantification, LOQ- Limit of Quantification

--- End of Test Report ---



Anshul Gupta  
Reviewed By

Pratibha Rawat  
Tech. Manager Micro

Authorized Signatory

Diwakar Jha  
G.M Technical Environment

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Website : www.simalab.net | www.simalab.com



TC-11220



## TEST REPORT

ULR : TC1122025200019058F

Party Code : S/BHR/18922  
\*Issued to : SJVN Thermal Pvt. Ltd.

REPORT NO. : SE1108003125/N

\*Customer Ref.No. : NS

Buxar Thermal Power Project, Main Office Building,  
Mohanpurwa, Akhouripur Gola, Chausa,  
Buxar-802114, Bihar

\*Reference Date : NS

Date of Sampling : 07/11/2025

Date of Received : 08/11/2025

Date of Issue : 15/11/2025

Start Date of Analysis : 08/11/2025

Date of Completion : 14/11/2025

Environmental Condition : 25±2°C, RH50±15%

Sample Condition : OK

\*Sample Name : Ground Water

\*Sample Qty. : 6 Ltr.

\*Sampling Location : Labour Colony-2

SOP/Sampling Plan : SIMA/ENV/SOP/024

Test Method Deviation : NA

Sample Collection : Sample Collected By Us

### RESULTS OF ANALYSIS

Reference : IS 10500 -2012, (Reaff. 2023) Amendment No. 1,2 & 3

Sample Description : Clear colourless liquid

S.No.	Parameter	Units	Results	Acceptable Limits (as per IS:10500-2012)	Permissible Limits (as per IS:10500-2012)	Protocols	Detection Limit
<b>Organoleptic &amp; Physical Parameters</b>							
1.	Colour	Hazen	<2.0	Max. 5	Max. 15	IS:3025 (P-4)	NA
2.	Odour	NA	Agreeable	Agreeable	Agreeable	IS:3025 (P-5)	NA
3.	pH Value	NA	7.25	6.5 to 8.5	No Relaxation	IS:3025 (P-11)	NA
4.	Taste	NA	Agreeable	Agreeable	Agreeable	IS:3025 (P-7)	NA
5.	Total Dissolved Solids	mg/L	373	Max. 500	Max. 2000	IS:3025 (P-16)	NA
6.	Turbidity	NTU	<1.0	Max. 1	Max. 5	IS:3025 (P-10)	NA
<b>General Parameter</b>							
7.	Aluminium (as Al)	mg/L	BLQ	Max. 0.03	Max. 0.2	IS:3025 (P-65)	LOQ (0.01)
8.	Ammonia (as Total Ammonia-N)	mg/L	BDL	Max. 0.5	No Relaxation	IS:3025 (P-34)	0.1
9.	Anionic Detergents (as MBAS)	mg/L	BDL	Max. 0.2	Max. 1.0	IS:3025 (P-68)	0.1
10.	Barium (as Ba)	mg/L	BLQ	Max. 0.7	No Relaxation	IS:3025 (P-65)	LOQ (0.01)
11.	Boron (as B)	mg/L	BLQ	Max. 0.5	Max. 2.4	IS:3025 (P-65)	LOQ (0.05)
12.	Calcium (as Ca)	mg/L	51.3	Max. 75	Max. 200	IS:3025 (P-40)	NA



*(Signature)*

Anshul Gupta

Reviewed By

*(Signature)*

Pratibha Rawat

Tech. Manager Micro

Authorized Signatory

*(Signature)*

Diwakar Jha

G.M Technical Environment

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TC-11220



## TEST REPORT

ULR : TC1122025200019058F

Party Code : S/BHR/18922

REPORT NO.

: SE1108003125/N

S.No.	Parameter	Units	Results	Acceptable Limits (as per IS:10500-2012)	Permissible Limits (as per IS:10500-2012)	Protocols	Detection Limit
13.	Chloramines (as Cl <sub>2</sub> )	mg/L	BDL	Max. 4.0	No Relaxation	IS:3025 (P-26)	0.1
14.	Chloride (as Cl)	mg/L	37.2	Max. 250	Max. 1000	IS:3025 (P-32)	NA
15.	Copper (as Cu)	mg/L	BLQ	Max. 0.05	Max. 1.5	IS:3025 (P-65)	LOQ (0.005)
16.	Fluoride (as F)	mg/L	BDL	Max. 1.0	Max. 1.5	APHA - 4500 F-D	0.05
17.	Free residual chlorine (as Cl <sub>2</sub> )	mg/L	BDL	Min. 0.2	Min. 1.0	IS:3025 (P-26)	0.1
18.	Iron (as Fe)	mg/L	BLQ	Max. 1.0	No Relaxation	IS:3025 (P-65)	LOQ (0.01)
19.	Magnesium (as Mg)	mg/L	19.8	Max. 30	Max. 100	IS:3025 (P-46)	NA
20.	Manganese (as Mn)	mg/L	BLQ	Max. 0.1	Max. 0.3	IS:3025 (P-65)	LOQ (0.01)
21.	Mineral Oil	mg/L	BDL	Max. 1.0	No Relaxation	Cl-6 of IS:3025 (P-39)	0.1
22.	Nitrate (as NO <sub>3</sub> )	mg/L	BDL	Max. 45	No Relaxation	IS:3025 (P-34)	0.05
23.	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH)	mg/L	BDL	Max. 0.001	Max. 0.002	IS:3025 (P-43)	0.001
24.	Selenium (as Se)	mg/L	BLQ	Max. 0.01	No Relaxation	IS:3025 (P-65)	LOQ (0.005)
25.	Silver (as Ag)	mg/L	BLQ	Max. 0.1	No Relaxation	IS:3025 (P-65)	LOQ (0.005)
26.	Sulphate (as SO <sub>4</sub> )	mg/L	6.3	Max. 200	Max. 400	IS:3025 (P-24)	NA
27.	Sulphide (as H <sub>2</sub> S)	mg/L	BDL	Max. 0.05	No Relaxation	IS:3025 (P-29)	0.02
28.	Total Alkalinity (as CaCO <sub>3</sub> )	mg/L	225.5	Max. 200	Max. 600	IS:3025 (P-23)	NA
29.	Total Hardness (as CaCO <sub>3</sub> )	mg/L	209.5	Max. 200	Max. 600	IS:3025 (P-21)	NA
30.	Zinc (as Zn)	mg/L	BLQ	Max. 5.0	Max. 15	IS:3025 (P-65)	LOQ (0.05)

### Toxic Substance

31.	Cadmium (as Cd)	mg/L	BLQ	Max. 0.003	No Relaxation	IS:3025 (P-65)	LOQ (0.002)
32.	Cyanide (as CN)	mg/L	BDL	Max. 0.05	No Relaxation	IS:3025 (P-27)	0.05
33.	Lead (as Pb)	mg/L	BLQ	Max. 0.01	No Relaxation	IS:3025 (P-65)	LOQ (0.005)
34.	Mercury (as Hg)	mg/L	BLQ	Max. 0.001	No Relaxation	IS:3025 (P-65)	LOQ (0.001)
35.	Molybdenum (as MO)	mg/L	BLQ	Max. 0.07	No Relaxation	IS:3025 (P-65)	LOQ (0.01)
36.	Nickel (as Ni)	mg/L	BLQ	Max. 0.02	No Relaxation	IS:3025 (P-65)	LOQ (0.005)
37.	Total Arsenic (as As)	mg/L	BLQ	Max. 0.01	No Relaxation	IS:3025 (P-65)	LOQ (0.005)
38.	Total Chromium (as Cr)	mg/L	BLQ	Max. 0.05	No Relaxation	IS:3025 (P-65)	LOQ (0.005)
39.	Polychlorinated Biphenyls	mg/L	BLQ	Max. 0.0005	No Relaxation	SIMA/INS/STP/001	LOQ (0.000025)



*Anshul Gupta*

Anshul Gupta  
Reviewed By

*Pratibha Rawat*

Pratibha Rawat  
Tech. Manager Micro

Authorized Signatory

*Diwakar Jha*

Diwakar Jha  
G.M Technical Environment

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TC-11220



## TEST REPORT

ULR : TC1122025200019058F

Party Code : S/BHR/18922

REPORT NO.

: SE1108003125/N

S.No.	Parameter	Units	Results	Acceptable Limits (as per IS:10500-2012)	Permissible Limits (as per IS:10500-2012)	Protocols	Detection Limit
40.	Polynuclear Aromatic Hydrocarbons (as PAH)	mg/L	BLQ	Max. 0.0001	No Relaxation	SIMA/INS/STP/001	LOQ (0.000025)
<b>Pesticides Residue</b>							
41.	2,4' DDD	µg/L	BLQ	Max. 1.0	NA	SIMA/INS/STP/001	LOQ (0.01)
42.	2,4' DDE	µg/L	BLQ	Max. 1.0	NA	SIMA/INS/STP/001	LOQ (0.01)
43.	2,4' DDT	µg/L	BLQ	Max. 1.0	NA	SIMA/INS/STP/001	LOQ (0.01)
44.	2,4-Dichlorophenoxy Acetic Acid	µg/L	BLQ	Max. 30	NA	SIMA/INS/STP/001	LOQ (0.01)
45.	4,4' DDD	µg/L	BLQ	Max. 1.0	NA	SIMA/INS/STP/001	LOQ (0.01)
46.	4,4' DDE	µg/L	BLQ	Max. 1.0	NA	SIMA/INS/STP/001	LOQ (0.01)
47.	4,4' DDT	µg/L	BLQ	Max. 1.0	NA	SIMA/INS/STP/001	LOQ (0.01)
48.	Alachlor	µg/L	BLQ	Max. 20	NA	SIMA/INS/STP/001	LOQ (0.01)
49.	Aldrin	µg/L	BLQ	Max. 0.03	NA	SIMA/INS/STP/001	LOQ (0.01)
50.	Alpha endosulfan	µg/L	BLQ	Max. 0.4	NA	SIMA/INS/STP/001	LOQ (0.01)
51.	Alpha HCH	µg/L	BLQ	Max. 0.01	NA	SIMA/INS/STP/001	LOQ (0.005)
52.	Atrazine	µg/L	BLQ	Max. 2.0	NA	SIMA/INS/STP/001	LOQ (0.01)
53.	Beta endosulfan	µg/L	BLQ	Max. 0.4	NA	SIMA/INS/STP/001	LOQ (0.01)
54.	Beta HCH	µg/L	BLQ	Max. 0.04	NA	SIMA/INS/STP/001	LOQ (0.01)
55.	Butachlor	µg/L	BLQ	Max. 125	NA	SIMA/INS/STP/001	LOQ (0.01)
56.	Chlorpyrifos	µg/L	BLQ	Max. 30	NA	SIMA/INS/STP/001	LOQ (0.01)
57.	Delta HCH	µg/L	BLQ	Max. 0.04	NA	SIMA/INS/STP/001	LOQ (0.01)
58.	Dieldrin	µg/L	BLQ	Max. 0.03	NA	SIMA/INS/STP/001	LOQ (0.01)
59.	Endosulfan sulphate	µg/L	BLQ	Max. 0.4	NA	SIMA/INS/STP/001	LOQ (0.01)
60.	Ethion	µg/L	BLQ	Max. 3.0	NA	SIMA/INS/STP/001	LOQ (0.01)
61.	Gamma-HCH (Lindane)	µg/L	BLQ	Max. 2.0	NA	SIMA/INS/STP/001	LOQ (0.01)
62.	Isoproturon	µg/L	BLQ	Max. 9.0	NA	SIMA/INS/STP/001	LOQ (0.01)
63.	Malathion	µg/L	BLQ	Max. 190	NA	SIMA/INS/STP/001	LOQ (0.01)
64.	Methyl Parathion	µg/L	BLQ	Max. 0.3	NA	SIMA/INS/STP/001	LOQ (0.01)
65.	Monocrotophos	µg/L	BLQ	Max. 1.0	NA	SIMA/INS/STP/001	LOQ (0.01)
66.	Phorate	µg/L	BLQ	Max. 2.0	NA	SIMA/INS/STP/001	LOQ (0.01)



*Anshul Gupta*

Anshul Gupta  
Reviewed By

*Pratibha Rawat*

Pratibha Rawat  
Tech. Manager Micro

Authorized Signatory

*Diwakar Jha*

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G.M Technical Environment

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TC-11220



## TEST REPORT

ULR : TC1122025200019058F

Party Code : S/BHR/18922

REPORT NO. : SE1108003125/N

S.No.	Parameter	Units	Results	Acceptable Limits (as per IS:10500-2012)	Permissible Limits (as per IS:10500-2012)	Protocols	Detection Limit
<b>Trihalomethanes</b>							
67.	Bromodichloromethane	mg/L	BLQ	Max. 0.06	NA	SIMA/INS/STP/002	LOQ (0.02)
68.	Bromoform	mg/L	BLQ	Max. 0.1	NA	SIMA/INS/STP/002	LOQ (0.02)
69.	Chloroform	mg/L	BLQ	Max. 0.2	NA	SIMA/INS/STP/002	LOQ (0.02)
70.	Dibromochloromethane	mg/L	BLQ	Max. 0.1	NA	SIMA/INS/STP/002	LOQ (0.02)
<b>Microbiological quality of water</b>							
71.	E.Coli	per 100 ml	Absent	Shall not be detectable in any 100 ml sample	NA	IS15185: 2016	NA
72.	Total Coliform	per 100 ml	Absent	Shall not be detectable in any 100 ml sample	NA	IS15185: 2016	NA

The above tested parameters meets the requirement of IS:10500-2012

Specification (Acceptable Limit), Except Sr.No.28,29

NA- Not Applicable, BDL- Below Detection Limit, BLQ- Below Limit of Quantification, LOQ- Limit of Quantification

--- End of Test Report ---



*Anshul Gupta*

Anshul Gupta  
Reviewed By

*Pratibha Rawat*

Pratibha Rawat  
Tech. Manager Micro

Authorized Signatory

*Diwakar Jha*

Diwakar Jha  
G.M Technical Environment

- Remarks:**
- This Test Report is not valid without a hologram.
  - The Results listed refer only to the above tested sample & applicable parameters. Endorsement of products is neither inferred nor implied.
  - Liability of laboratory is limited to the invoiced amount only. Any dispute arising out of this report shall be subject to Delhi jurisdiction only.
  - This Test Report is not to be reproduced wholly or in part as evidence in the Court of law without written permission from SIMA Labs Pvt. Ltd.
  - The Test Report should not be used wholly or in part in any advertising media without written permission from SIMA Labs Pvt. Ltd.
  - The sample(s) of Drugs & Cosmetics will be destroyed after one year, Perishable samples (Other than Drugs & Cosmetics) will be destroyed after 7 days and non perishable samples will be destroyed after 30 days of the date of issue of Test Report or unless otherwise specified.
  - SIMA Labs Pvt. Ltd. will not be held responsible for the authenticity of any photocopied, forged and or partially presented test reports.
  - SIMA Labs Pvt. Ltd. will ensure all corrective action as per our policy in case of any discrepancy in any sample tested by SIMA Labs Pvt. Ltd.
  - Re-testing charges will be applicable in case the results are reproducible.
  - Duplicable copy will be issued on chargeable basis.
  - SIMA Stands for - Sophisticated Industrial Materials Analytic

Page : 4 of 4

VS



Scan for Accreditation & Scope

Indicates details provided by the customer



मुख्य अभियन्ता का कार्यालय,  
बाढ़ नियंत्रण एवं जल निस्कारण  
जल संसाधन विभाग, पटना।

पत्रांक- 171

दिनांक- 21.11.17

सेवा में

✓ अधीक्षण अभियन्ता  
बाढ़ नियंत्रण योजना एवं मॉनिटरिंग अंचल,  
जल संसाधन विभाग, पटना।

विषय :-  
डायवर्सन

प्रस्तावित चौसा ताप विद्युत परियोजना स्थल के मध्य से प्रस्तावित बुद्धा नाला के  
संबंधी अनापत्ति प्रमाण पत्र निर्गत करने के संबंध में।

महाशय,

उपरोक्त विषय के सन्दर्भ में सूचित करना है कि बक्सर थर्मल पावर प्रोजेक्ट  
( 1320 मेगावाट ) चौसा का निर्माण कार्य लगभग 1064 एकड़ भू-भाग में स्टेट उच्च पथ 14 एवं  
स्टेट उच्च पथ 17 के पास प्रस्तावित है। प्लान्ट एरीया के मध्य से बुद्धा नाला दक्षिण से उत्तर पूर्व की  
दिशा में बहते हुए प्लान्ट क्षेत्र के बाहर होकर कर्मनाशा नदी में मिल जाती है। मुख्य कार्यपालक  
पदाधिकारी, बक्सर थर्मल पावर प्रोजेक्ट चौसा, बक्सर के पत्रांक 2329 दिनांक 27.9.2016 द्वारा बुद्धा नाला  
को प्लान्ट क्षेत्र से बाहर ही बैकल्पिक नालाओं द्वारा डायवर्ट करने हेतु विभागीय अनापत्ति प्रमाण पत्र की  
माँग की गई है।

प्राधिकार द्वारा प्लान्ट क्षेत्र के बाहरी वाउन्ड्री के पास से बैकल्पिक नालाओं द्वारा अंतिम बिन्दु को  
मिलाने का प्रस्ताव है। प्राधिकार द्वारा प्लान्ट क्षेत्र के बाहरी भाग में पश्चिम में 5122.88 मीटर लंबी नाला  
एवं पूरब में 4178.87 मीटर लंबी नाला निर्माण करने का प्रस्ताव है।

प्लान्ट क्षेत्र में बुद्धा नाला की कुल लम्बाई 5719.66 मीटर, इसकी औसत गहराई 2.00 मीटर  
से 2.25 मीटर एवं बेड की चौड़ाई 1.50 मीटर से 2.00 मीटर है।

इस नाले को 5122.80 मीटर लम्बाई 2.50 मीटर गहराई एवं 2.00 बेड वीथ वाले वैकल्पिक नाले  
से प्रतिस्थापित करने का प्रस्ताव है। इस वैकल्पिक नाले की जल प्रवाह क्षमता बुद्धा नाले की क्षमता से  
ज्यादा ही है।

द्वितीयतः परियोजना क्षेत्र के पूरव भाग में 4178.87 मीटर लम्बे नाले के निर्माण का भी प्रस्ताव है  
जिससे परियोजना क्षेत्र के पूर्वी क्षेत्र का जल निकासी हो सकेगा।

परियोजना क्षेत्र के दक्षिण भाग का स्लोप पूरव से पश्चिम की ओर होने के कारण इस भाग में  
बाहरी क्षेत्र का ड्रेन पश्चिम से पूरव की ओर हो जायेगा।

अतएव दक्षिणी भाग में बैकल्पिक ड्रेन के निर्माण की आवश्यकता नहीं है। उक्त आलोक में प्राप्त प्रस्ताव आवश्यक ड्रेन व्यवस्था के लिए पर्याप्त है अतएव निम्न बिन्दुओं पर विभागीय अनापत्ति संसूचित की जा सकती है :-

1) परियोजना क्षेत्र के पश्चिमी बाहरी भाग में बैकल्पिक नाला-1 का निर्माण :-

लम्बाई - 5122.88 मीटर

बेड बीथ - 2.00 मीटर

औसत गहराई- 2.50 मीटर

साईड स्लोप- 1.5:1 ( H:V )

2) परियोजना क्षेत्र के पूर्वी बाहरी भाग में बैकल्पिक नाला-2 का निर्माण :-

लम्बाई - 4778.87 मीटर

बेड बीथ - 2.00 मीटर

औसत गहराई- 2.50 मीटर

साईड स्लोप- 1.5:1 ( H:V )

शर्तें :-

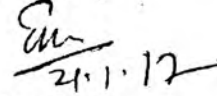
1) नाला के बाहरी किनारे में बाँध का निर्माण नहीं किया जाय ताकि ड्रेन वाटर को नाले में आने अवरोध न हो।

2) यथा संभव नाले को सीधी रूप में निर्माण की जाय।

3) विभागीय अभियन्ता की देखरेख एवं उनके निर्देशों का अनुपालन अनिवार्य होगा।

अनु० :-यथोक्त।

विश्वासभाजन,



मुख्य अभियन्ता

बाढ़ नियंत्रण एवं जल निस्सरण  
जल संसाधन विभाग, पटना।



# SJVN LIMITED

(A Joint Venture of Govt. of India & Govt. of Himachal Pradesh  
A 'Mini Ratna' & Schedule 'A' PSU | ISO 9001:2015 Certified Company  
CIN: L40101HP1988GOI008409

## ENVIRONMENT POLICY

[HOME](#) > [ENVIRONMENT](#) > [ENVIRONMENT POLICY](#)

### ENVIRONMENT POLICY STATEMENT

SJVN reaffirms its commitment towards sustainable power generation and transmission with utmost care for environment.

#### TOWARDS THIS COMMITMENT, SJVN WILL ENDEAVOUR TO:

- > Conduct all its activities in an environmentally responsible manner and comply with applicable legal requirements, guidelines, directives and other commitments.
- > Continually improve its management systems to prevent pollution and seek new and innovative ways to mitigate environmental impacts of its past, present and future activities.
- > Develop and maintain efficient two-way communication with the stakeholders and collaborate with them in resolving environmental concerns.
- > Minimize waste generation, promote efficient use of resources and contribute towards reduction of Green House Gas (GHG) emissions.
- > Promote environmental awareness among its employees, contractors and suppliers and ensure that they have the training, knowledge, skills, resources, and equipment to meet the environmental commitments.

<a href="#">Preamble</a>
<a href="#">Environment Policy</a>
<a href="#">Initiatives</a>
<a href="#">Clearances and Reports</a>
<a href="#">Clearances &amp; reports i.r.o. Corporate Head Quarter</a>



[Hyperlink Policy](#)   [Accessibility Statement](#)   [Privacy Policy](#)   [Disclaimer](#)   [Sitemap](#)  
[SJVN Caller Tune](#)   [Women Helpline no.](#)   [SJVN Intranet](#)   [Contact Us](#)

**Stock Watch** Today: 16/05/2023



**PCMM/3**  
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E-mail jec@kolkata@explosives.gov.in
Phone/Fax No 933 - 22486600,22486427

संख्या No. P/EC/BI/15/1910 (P522050)
सेवा में /To,

दिनांक /Dated 24/12/2024

M/s. SJVN Thermal (P) Ltd.,
Buxar Thermal power project (2x660)MW, Chausa, Buxar,
Chausa,
District: BUXAR,
State: Bihar
PIN: 802114

विषय /Sub: Khasra No. 433-434, Village-Sikraul, Khorampur Thana No.- 42, (WITHIN FACTORY PREMISES), Sikraul, Chausa, Taluka: Buxar, District: BUXAR, State: Bihar, PIN: 802114 में पेट्रोलियम वर्ग C का अविज्ञान -अनुमति जारी करने के बारे में।
Petroleum Class C Installation at Khasra No. 433-434, Village-Sikraul, Khorampur Thana No.- 42, (WITHIN FACTORY PREMISES), Sikraul, Chausa, Taluka: Buxar, District: BUXAR, State: Bihar, PIN: 802114
Grant of License regarding.

महोदय (स/म),
कृपया आपके पत्र क्रमांक OIN1846262 दिनांक 20/12/2024 का अवलोकन करें।
Please refer to your letter No. OIN1846262 dated 20/12/2024
विधानमंडल अधिनियम में निम्नलिखित पेट्रोलियम पदार्थों के वर्ग तथा मात्रा के भंडारण के लिए पेट्रोलियम नियम, 2002 के अर्धीन प्रकरण - XV में स्वीकृत, दिनांक 31/12/2028 तक वैध अनुमति संख्या P/EC/BI/15/1910 (P522050) दिनांक 24/12/2024 गौरी को रूढ़ि है।
Licence No. P/EC/BI/15/1910 (P522050) dated 24/12/2024 granted in Form XV under the Petroleum Rules, 2002 and valid till 31/12/2028 for the storage of the following kinds and quantities of Petroleum at the subject installation is forwarded herewith.

Table with 2 columns: पेट्रोलियम का विवरण /Description of Petroleum and किलोलीटर में अनुमति क्षमता /Quantity licensed in KL. Rows include Petroleum Class A, B, C in bulk and Total Capacity 6000.00 KL.

कृपया पेट्रोलियम नियम 2002 के अर्धीन बनाए गए नियम 148 में दी गई प्रक्रिया का कटाई से पालन करें और अनुमति के नवीकरण हेतु समस्त दस्तावेजों को अनुमति की वेबसाइट/की तारीख या उसके पूर्व Controller of Explosives, Patna की प्रेषित करें।
Please follow the procedure strictly as laid down in rule 148 of the Petroleum Rules, 2002 and submit complete documents for the Renewal of the licence to Controller of Explosives, Patna, so as to reach his office on or before the date on which Licence expires.

एक अनुमति/अनुमति अन्य प्राधिकारियों से आवश्यक अनुमति/अनुमति प्राप्त करने से या पाया लागू अन्य विधियों से छूट नहीं देती है।
This approval/permission, however, does not absolve from obtaining necessary permission/clearance from other authorities or under other statutes as applicable.

Condition of approval PLEASE PROVIDE ENSURE OVERHEAT PROTECTION AND LOW LEVEL PROTECTION IN BOTH TANKS ( WITH AUDIO AND VISUAL ALARMS ) : ( THE TEMPERATURE SHOULD REDUCE/HEATING DISCONTINUED , WHEN TANK LEVEL OF THE REDUCES TO DATUM LEVEL)
PLEASE MAINTAIN THE PREMISES EXACTLY AS PER APPROVED DRAWING, AND FOLLOW THE SOPs OF COMMISSIONING AND OPERATIONS
PLEASE MAINTAIN ALL NECESSARY ONLINE/OFFLINE RECORDS
PLEASE DEPUTE ONLY EXPERIENCED AND TECHNICAL MANPOWER
PLEASE STRICTLY FOLLOW THE CONDITIONS OF THE LICENSE AND RELEVANT PROVISIONS OF THE SAID RULES.
PLEASE FOLLOW THE CONDITIONS /GUIDELINES OF DISTRICT AUTHORITY/NGT GUIDELINES/OTHER STATUTES.
PLEASE KEEP THE PREMISES AND SURROUNDINGS ABSOLUTELY NEAT AND CLEAN.
PLEASE DISPLAY SAFETY INSTRUCTIONS AT SUITABLE PLACES IN SUITABLE LANGUAGES.

भवदीय /Yours faithfully,

(अजय सिंह)
(Ajai Singh)
संयुक्त प्रमुख विस्फोटक नियंत्रक
JL Chief Controller of Explosives
कोलकाता (ए.ब.)/Kolkata

Copy forwarded to :-
1. The District Magistrate, BUXAR(Bihar) with reference to his /NOC No XV-01-2024// P/BI/BI/15/1910/22050/4(N6707) Dated 18/12/2024
2. The Controller of Explosives, Patna. A Copy of the licence along with approved plan is enclosed.

JL Chief Controller of Explosives
Kolkata

(अधिक जानकारी के लिए आवेदन की स्थिति, शुल्क तथा अन्य विवरण के लिए हमारी वेबसाइट http://peso.gov.in देखें।)
(For more information regarding status, fees and other details please visit our website http://peso.gov.in)

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Reason: Licence No. : P/EC/BI/15/1910
Location East Circle office [P522050]
Date 24-12-2024 16:36:34 PM

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प्ररूप XV  
(प्रथम अनुसूची का अनुच्छेद 6 देखिए)  
FORM XV  
(see Article 6 of the First Schedule)

अधिष्ठापनों में पेट्रोलियम के आयात और भंडारकरण के लिए अनुज्ञप्ति  
LICENCE TO IMPORT AND STORE PETROLEUM IN AN INSTALLATION

अनुज्ञप्ति सं. (Licence No.) : P/EC/BI/15/1910(P522050)

फीस रूपए (Fee Rs.) 50000/- per year

M/s. SJVN Thermal ( P ) Ltd., Buxar Thermal power project (2x660)MW, Chausa, Buxar, Chausa, District: BUXAR, State: Bihar, PIN: 802114 को केवल इसमें यथा विनिर्दिष्ट वर्ग और मात्राओं में पेट्रोलियम 6000.00 KL आयात करने के लिए और उसका, नीचे वर्णित और अनुमोदित नक्शा संख्या P/EC/BI/15/1910(P522050) तारीख 24/12/2024 जो कि इससे उपाबद्ध है, में दिखाए गए स्थान पर भण्डारकरण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुज्ञप्ति की अतिरिक्त शर्तों के अधीन रहते हुए, यह अनुज्ञप्ति अनुदत्त की जाती है।

Licence is hereby granted to M/s. SJVN Thermal ( P ) Ltd., Buxar Thermal power project (2x660)MW, Chausa, Buxar, Chausa, District: BUXAR, State: Bihar, PIN: 802114 valid only for the importation and storage of 6000.00 KL Petroleum of the class and quantities as herein specified and storage thereof in the place described below and shown on the approved plan No P/EC/BI/15/1910(P522050) dated 24/12/2024 attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

यह अनुज्ञप्ति 31st day of December 2028 तक प्रवृत्त रहेगी।

The Licence shall remain in force till the 31st day of December 2028

पेट्रोलियम का विवरण /Description of Petroleum	अनुज्ञप्त मात्रा (किलोलीटरों में) /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	NIL
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	6000.00 KL
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	6000.00 KL

December 24, 2024

Jt. Chief Controller of Explosives  
EC, Kolkata

अनुज्ञप्त परिसरों का विवरण और अवस्थान  
DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

अनुज्ञप्त परिसर जिसकी विन्यास सीमाएं अन्य विशिष्टां संलग्न अनुमोदित नक्शों में दिखाई गई हैं Khasra No: 433-434, , Village-Sikraul, , Khorampur Thana No.- 42,, (WITHIN FACTORY PREMISES), Sikraul, Chausa, Taluka: Buxar, District: BUXAR, State: Bihar, PIN: 802114 स्थान पर अवस्थित है तथा उसमें निम्नलिखित 2 Above Ground tank(s) for CLASS C (LDO) WITH CONNECTED FACILITIES FOR OWN USE. IN BOILER, FIRE FIGHTING FACILITIES AS PER RULE-117 OF PR-2002( AS AMENDED) , LEL, AND OVERHEAT PROTECTION TO TANK MUST BE PROVIDED. ONLY TRAINED AND EXPERIENCED MANPOWER WILL BE USED. ALL OTHER TANK (DRAIN WATER TANK , SUMP etc BELOW 5KL). सम्मिलित है।

The licensed premises, the layout , boundaries and other particulars of which are shown in the attached approved plan are situated at Khasra No: 433-434, , Village-Sikraul, , Khorampur Thana No.- 42,, (WITHIN FACTORY PREMISES), Sikraul, Chausa, Taluka: Buxar, District: BUXAR, State: Bihar, PIN: 802114 and consists of 2 Above Ground tank(s) for CLASS C (LDO) WITH CONNECTED FACILITIES FOR OWN USE. IN BOILER, FIRE FIGHTING FACILITIES AS PER RULE-117 OF PR-2002( AS AMENDED) , LEL, AND OVERHEAT PROTECTION TO TANK MUST BE PROVIDED. ONLY TRAINED AND EXPERIENCED MANPOWER WILL BE USED. ALL OTHER TANK (DRAIN WATER TANK , SUMP etc BELOW 5KL). together with connected facilities.

Note:-This is system generated document does not require signature.

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Reason: Licence No. : P/EC/BI/15/1910  
Location: East Circle office [P522050]  
Date 24-12-2024 16:37:00 PM

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अनुज्ञप्ति संख्या-(Licence No.) P/EC/BI/15/1910 (P522050)

**नवीनीकरण के पृष्ठांकन के लिए स्थान**  
**SPACE FOR ENDORSEMENT OF RENEWALS**

<p>पेट्रोलियम अधिनियम, १९३४ के उपबन्धों या नवीकरण की तारीख उनके अधीन बनाए गए नियमों या इस अनुज्ञप्ति की शर्तों का उल्लंघन न होने की दशा में यह अनुज्ञप्ति फ़िस में बिना किसी छूट के दस वर्ष तक नवीकृत की जा सकेगी।</p>	<p>Date of Renewal</p>	<p>Date of Expiry of license</p>	<p>अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature and office stamp of the licencing authority.</p>
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This licence shall be renewable without any concession in fee for ten years in the absence of contravention of any provisions of the Petroleum Act, 1934 or of the rules framed thereunder or of any of the conditions of this licence.

यदि अनुज्ञप्ति परिसर इसमें उपाबद्ध विवरण और शर्तों के अनुरूप नहीं पाए जाते हैं और जिन नियमों और शर्तों के अधीन यह अनुज्ञप्ति मंजूर की गई है उनमें से किसी का उल्लंघन होने की दशा में यह अनुज्ञप्ति रद्द की जा सकती है और अनुज्ञप्तिधारी प्रथम अपराध के लिए साधारण कारावास से, जो एक मास तक हो सकता है, या जुर्माने से, जो एक हजार रुपये तक हो सकता है, या दोनों से, और प्रत्येक पश्चात्तवर्ती अपराध के लिए साधारण कारावास से जो तीन मास तक हो सकता है, या जुर्माने से, जो पांच हजार रुपये तक हो सकता है, या दोनों से, दण्डनीय होगा।

This licence is liable to be cancelled if the licensed premises are not found conforming to the description given on the approved plan attached hereto and contravention of any of the rules and conditions under which this licence is granted and the holder of this licence is also punishable for the first offence with simple imprisonment which may be extend to one month, or with fine which may extend to one thousand rupees, or with both and for every subsequent offence with simple imprisonment which may extend to three months, or with fine which may extend to five thousand rupees or with both.

**Note:-This is system generated document does not require signature.**

# **EMERGENCY PREPAREDNESS PLAN**

## **OF**



**SJVN Thermal (P) Ltd., BUXAR**

Prepared

By



**NATIONAL SAFETY COUNCIL**

**98-A, Sector 15, Institutional Area,**

**CBD Belapur, Navi Mumbai-400 614**

**Tel. 022-27579924/5/6/7, Fax: 022-27577351,**

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**Approval and Implementation  
of  
EMERGENCY PREPAREDNESS PLAN  
For**



**SJVN Thermal (P) Ltd., BUXAR**

Prepared


By



**NATIONAL SAFETY COUNCIL**



**This emergency preparedness plan is hereby approved. The plan is effective immediately after approval.**

 Signature with date
<b>Sh. Sanjeev Sood</b> <b>Chief Executive Officer (CEO)</b> <b>SJVN Thermal (P) Ltd., BUXAR</b>

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## **1.0 GENERAL**

### **1.1 Introduction**

On request from the management of SJVN THERMAL (P). LTD. Buxar, Bihar; the National Safety Council of India (NSCI), Mumbai organized site visit by their experts for planning and preparation of the 'Emergency Preparedness Plan' (EPP).

Power generating Industries are Listed as 'Hazardous Industry' under the first schedule (Section 2cb) of the Factories Act 1948, listing the 29 industries involved in hazardous processes and that safe planning and operation of facilities is highly important in order to prevent accidents involving hazardous substances and hazardous installations. And as the Plant is under construction phase the BOCW Act and Rules is applicable to this site and as per Rule 36 of the BOCW Central Rules, 1998 the emergency action plan is to be made.

The Emergency Preparedness Plan (EPP) prepared in compliance with the statutes will help management to start disseminating information to every person at site about the relevant provisions, conduct mock drills and continue this exercise routinely thereafter at least twice a year. The whole purpose of plant management is to put emergency planning activities/programs into place as to localize any accident that may occur and, if possible, contain them and thereby minimize their harmful effects on health of persons, environment and property.

### **1.2 Legal Obligation**

The preparation of Emergency Preparedness Plan with detailed Emergency Control Measures and the revision of the same whenever any change in process/management, is the legal responsibility of the occupier of the factory as per section 41-B (4) of the Factories Act 1948, rule 36 of The BOCW central Rules, 1998 and Central Electricity Authority safety regulation 2010/11 regulation 9 and Disaster Management Act 2005.

As the plant is under construction stage and as required under BOCW Act, 1996 and BOCW central Rules, 1998; the emergency action plan is to be prepared by the occupier of the factory for managing and mitigation of emergencies.

#### **Definition & Scope**

An emergency has been defined by the Ministry of Labor, Government of India as an unplanned event relating, in particular from fire, explosion or toxic releases. This occurrence may be termed a major incidence if it leads to serious dangers to life, property or environment. It may result from uncontrolled development like plant failure or human error in course of an industrial activity and involve release of hazardous substances in quantities above permitted threshold under the legislations.

According to OECD (Organization for Economic Cooperation & Development) guiding principles addressing the range of issues relating to:

- i. Preventing the occurrence of incidents;
- ii. preparing for accident mitigation;
- iii. responding to minimize adverse effects and
- iv. follow up for initial clean up, reporting and investigation, the prerequisite for effective emergency planning is the identification of hazardous installations located on site i.e., fixed installations where hazardous substances are produced, processed, handled, stored or disposed of.

A formal written Emergency Preparedness Plan is prepared on the basis of step-by-step identification of principal accident potentials at the installation together with their risk potential, describing how such accidents and their consequences should be handled either on-site or off-site. Emergency Preparedness Plan should include details of appropriate technical and organizational procedures that are appropriate to minimize incidents that could lead to losses. It is regarded as an essential element of any major hazard control.

The structure of the Emergency Preparedness Plan is based on the BOCW Act and Central rules.

The Plan has been prepared in accordance with the existing activities and facilities available at the site required for handling emergencies. The risks envisaged are considered on the basis of the past experiences.

### **1.3 Objective of the Emergency Preparedness Plan**

The objective of preparation of plan is to develop a state of readiness for prompt and orderly response to an emergency and if possible, eliminate them or minimize the harmful effects of an emergency on people, property and the environment. The Emergency Preparedness Plan is prepared to:

- a. Assess the size & nature of emergency and the relative likelihood of their occurrence.
- b. Have readily available a high order of preparedness (equipment /personnel /Outside help) according to the level of risk to prevent the emergency turning into a disaster
- c. Ensure orderly and timely decision making for emergency response, effective rescue operation and treatment of casualties
- d. Provide emergency management organization with clear guidelines of authority to act with confidence
- e. Bring back the normal situation in the least possible time.
- f. Ensure that no panic is created among general public and no exploitation or exaggeration of the situation is done by any agency.

This Emergency Preparedness Plan is for quick relief and rescue operations without delay so as to minimize casualties, prevent injuries and minimize property damage and losses.

## 1.4 Scope of the Plan

The SJVN THERMAL (P). LTD., of SJVN Limited, Buxar, Bihar management takes the required care for preventing accidents through good design, latest equipment, modern project management techniques, safe operation & maintenance and safety practices etc. This reduces the risks of an accident, but cannot eliminate it all together. An essential part of hazard control by plant management is therefore concerned with mitigating the effects of a major accident, assessing the consequence of such accidents and deciding on the emergency procedures that would be implemented in the event of an emergency inside the plant and in the vicinity of the plant or area affected by the emergency of the plant. This emergency preparedness plan can provide a pathway to handle such situation and can save precious lives and properties which are associated to and owned by STPL.

This Emergency Preparedness Plan covers the following type of emergencies –

- a. Fire, explosion, structure failure, or any other type of emergency due to plant construction activities and other associated works.
- b. Natural calamities such as flood, earthquake, storm etc.
- c. Man-made emergencies: such as bomb threat, food/water poisoning, air raid etc.
- d. Pandemic/Epidemic like COVID-19

\*\*\*

## 2.0 ABOUT THE FACTORY

- ❖ Brief about SJVN Limited and Buxar Thermal Power Project, Buxar, Bihar

### **Introduction about SJVN Limited:**

SJVN Limited, a Mini-Ratna: Category-I and Schedule –‘A’ CPSE under administrative control of Ministry of Power, Government of India, was incorporated on May 24, 1988 as a joint venture of Government of India (GOI) and the Government of Himachal Pradesh (GOHP). SJVN is now a listed Company having stakeholders pattern of 59.92% with Government of India, 26.85 % with Government of Himachal Pradesh (GOHP) and rest 13.23% with Public. The present paid up capital and authorized capital of SJVN is Rs. 7000 crores. The present Net worth is Rs. 11,759.31 crore (31.03.2020)

### **Business:**

After its incorporation, SJVN commenced its journey by constructing and operating, India’s largest Hydro Power Station i.e. 1500 MW Nathpa Jhakri Hydro Power Station. This power station in Himachal Pradesh was Commissioned in the financial year 2003-04, since then SJVN has successfully commissioned four more projects in different states, which include 412 MW Rampur Hydro Power Station in Himachal Pradesh, 47.6 MW Khirvire Wind Power Project in Maharashtra, 5.6 MW Charanka Solar Power Plant in Gujarat, 50 MW Sadia Wind Power project, one solar in Gujarat and 1.31 MW Grid Connected Solar Power station (NJHPS). The current installed capacity of SJVN is 2016.51 MW (comprising of 1912 MW Hydro + 97.6 MW wind power + 6.91 MW Solar Power) besides one transmission line of 86 KM length.

### **Buxar Thermal Power Project 1320 MW brief:**

Government of Bihar has allotted 1320 MW (660 X 2) Buxar Thermal Power Project to SJVN which is being executed through its wholly owned subsidiary company namely SJVN Thermal (P). Limited. The project is located in Chausa Block of Buxar district. Foundation stone of the project was laid down by Sh. Narendra Modi, Honorable Prime Minister of India on 9th March, 2019. The project cost at January 2018 price level is Rs. 10,439 corers. EPC contract for the project was awarded to L&T Power limited in June 2019. As per the power purchase agreement with Government of Bihar, 85 % of the total power generated will be provided to the state of Bihar and the balance 15 % will be sold to the other power purchases at the Bus Bar rate, as per allocation of Govt. of India. The first unit of the project is scheduled to be commissioned in June 2023 and the second unit in October 2023.

### **Salient Features of the project: -**

Capacity	1320 MW
Technology	Super Critical
Annual Power Generation	9828.72 MU
Plant Load Factor	85%
Auxiliary power Reg.	5.75%
Seismic Zone	IV

Coal Requirement	4.91 MMT Per Annum
Coal grade	G-9 to G-14
Plant Heat Rate	2248 Kcal/Kwh
Water Requirement	32.5 Cusec
Chimney	One number of 275 m Height (with FGD)
Cooling Tower	Two numbers 82600 Cubic meter/hr. Capacity (induced draft cooling tower)
Turbines	Single reheat condensing type
Generator Voltage	20 kV
Transformers	6 numbers single phase plus one number standby
Voltage Step Up	20 kV to 400 kV

\*\*\*

### **3. EMERGENCY ORGANISATION (MANAGEMENT AND RESPONSIBILITIES)**

The Emergency Preparedness Plan takes into account the transition from normal operations to emergency operations and the delegation of authority from operation personnel to emergency response personnel. For this purpose, it identifies an emergency response organisation with appropriate lines of authority and the way response management would come effectively into action. It also identifies the position, responsibilities and reporting relationships of each responder.

#### **3.1 Concept of Emergency Response Operation**

- In an emergency the guidelines and information must be communicated quickly and accurately throughout the factory. The purpose is to establish an effective emergency communication network and a procedure for prompt notification to individuals and agencies involved in an emergency response.
- It must identify means for round the clock notification of first responders and officials who can provide direction and control to the response efforts and who can authorize evacuation. To prevent the system breakdown, an "alternate" person should be designated for each key position of designated responsibility.
- The notification procedure may include flow-charts and checklists indicating who should be involved, who has the responsibility to notify these individuals, how the notification is accomplished and the use of "fan out" (a call to one person/agency who in turn calls one or more key individuals during an emergency). These telephone numbers and checklists may be posted in critical areas.
- The Emergency Response Organisation is deployed for ready use during the construction activities being carried out. Therefore, the responsibility of coordinating the emergency response action lies with the main contractor RCM (Resident Construction Manager) and respective key personnel of SJVN THERMAL (P).LTD.

#### **3.2 Key functions of Emergency Organisation**

Command and control of an emergency condition encompasses the key management functions necessary to ensure the health and safety of employees, as well as of the public living in the vicinity. In addition, the implementation of an Emergency Response Plan relies on a number of response functions, which deal with different aspects of emergency, the most important ones being:

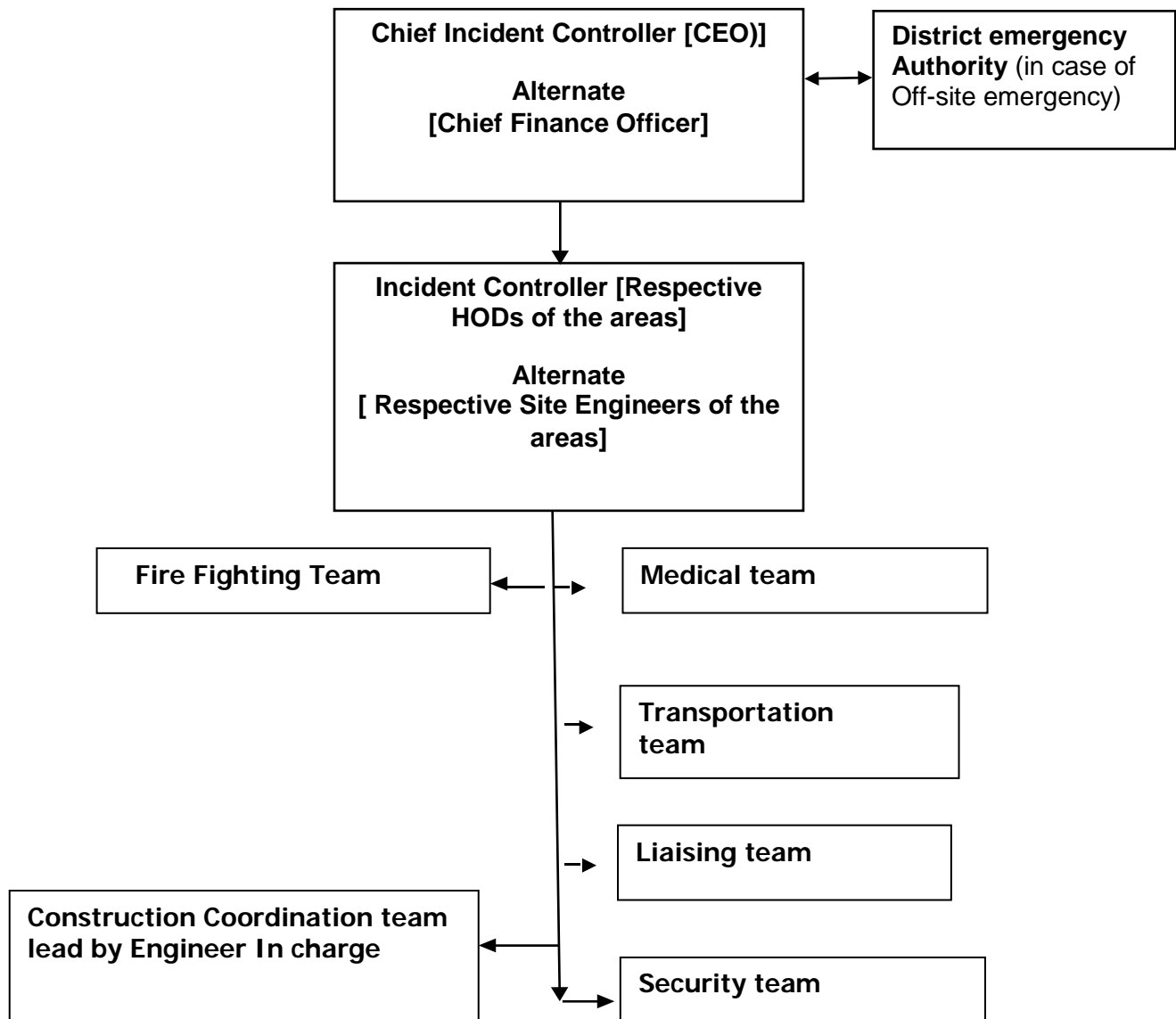
- Communication and Co-ordination
- Fire and Rescue (Emergency Mitigation)
- Main Contractor Team at Incident Site for control and mitigation
- Medical Services
- Security services
- Liaison with external agencies

The SJVN THERMAL (P). LIMITED, Buxar is headed by CEO (Chief Executive Officer), who has been empowered with overall responsibility, and is identified as Chief Incident Controller (CIC) in case of onsite emergency. All technical areas like construction activities and maintenance are looked after by HoDs.

For smooth functioning of emergency organisation Chief Finance Officer (CFO) is assigned as alternate Chief Incident Controller and would always be in Emergency Control Centre (ECC) during emergency. Other HoDs would help him in mitigating the emergency.

## EMERGENCY MANAGEMENT ORGANISATION

### EMERGENCY ORGANIZATION CHART

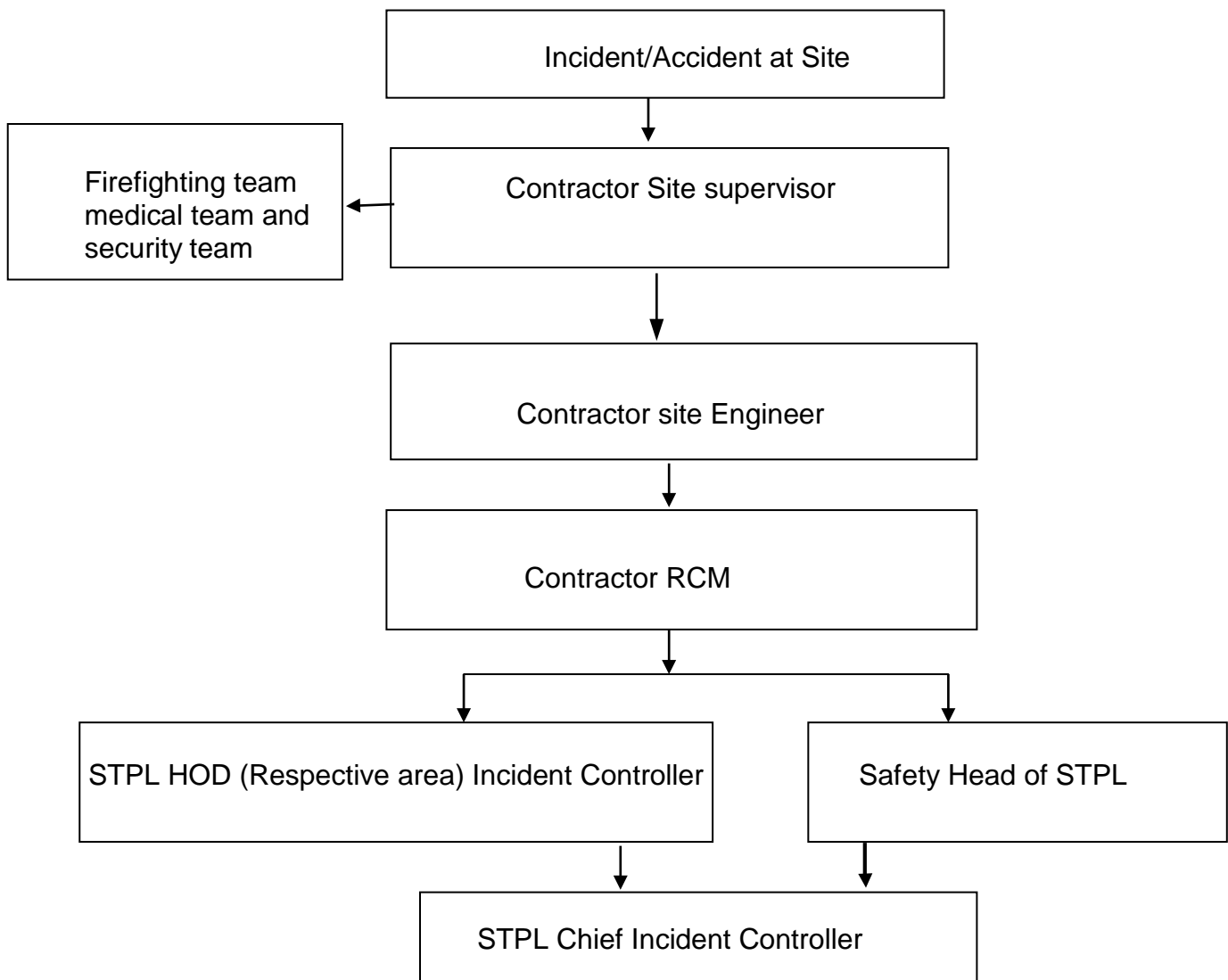


### 3.3 Response Level Matrix during Emergency

Following persons will act as per their responsibility to combat and control the emergency. Their position during normal operation of the construction site and emergency are summarised below:

In accordance with the organisation structure, the personnel in-charge of each of the above functions responds to the Chief Incident Controller (CIC), who is the overall in-charge of each function is staffed with a team, the size and composition of the team depends on the task required to be carried out during the emergency and the size of facility. These teams then operate according to the instructions provided by the CIC and within the purview of pre-written guidelines to accomplish their task. Some of these teams mainly operate from the Emergency Control Centre (ECC) and others would operate in the field or in other part of the SJVN THERMAL (P). LTD., Buxar.

#### Emergency Communication flow chart:



### 3.4 Functions of Designated Persons during Emergency

#### a) Chief Incident Controller (CIC)

The CEO, SJVN THERMAL (P). LIMITED, Buxar; assumes the role of CIC. He has an overall responsibility for directing emergency control operations and calling outside help. The alternate would be as per the response level matrix indicated above. He will then proceed to the Emergency Control Centre and take overall control of the emergency and provide guidance in critical decision making. Specific responsibilities/duties of the CIC are as under:

- i. Continually review and assess existing and possible developments to determine the most probable course of events and effective methods to deal with them.
- ii. Direct a safe evacuation from incident site, if required, in consultation with the respective HoDs.
- iii. Ensure that casualties are receiving adequate attention.
- iv. Decide in consultation with Incident Controller and key persons whether an off-site emergency is likely to take place. If an off-site emergency is imminent then arrange to or instruct the concern, under guidance of District Emergency Authority, as to—
  - Alert, evacuate the public living in the vicinity of the Plant and, if necessary, advise their evacuation.
  - Call the outside emergency services
  - Inform district emergency authorities
  - Coordinate with district emergency authorities to mitigate the consequences outside the factory
  - Coordinate with district emergency authorities for evacuation, shelter, rescue and rehabilitation of general public in the vicinity of affected area.
- v. Inform company senior officials
- vi. Declare cessation/termination of emergency after having full control on emergency event
- vii. Rehabilitate the affected area after the emergency is over.
- viii. In case of Strike by the Plant Personnel, identify critical areas of the Plant in advance. If emergency occurs during the strike, following arrangements are required to be made in advance to meet the crisis:
  - a. Keep the list of Technical and Administrative Records needed to continue the construction and other activities in an emergency.
  - b. Keep the record of Personnel (Non-executive) likely to be available during the strike and keep the same in safe custody.
  - c. Identify alternate arrangements for meeting any emergency in the factory i.e. by mutual aid with other factories, etc.

#### b) Incident Controller

The respective HoDs will be Incident Controller (IC) and would handle the emergency from the site.

Alternate IC will be respective site engineers.

For handling emergencies after office working hours, during weekends and holidays, the respective site engineers will be the ICs until the arrival of the HoDs.

The responsibilities of the IC are enumerated below:

After getting the emergency call from site, rush to the emergency site to assess the situation and look into the following:

- i. Check whether other responders have arrived at site
- ii. Set up communication network with the Emergency Control Centre, using mobile and other means of communication like walkie talkie sets.
- iii. Take stock of the situation at site and if found uncontrollable inform CIC. After taking the stock of the situation, decide in consultation with CIC for declaring the emergency as an on-site emergency and inform to the Fire/security Control Room for sounding the emergency siren.
- iv. Review if construction activities are required to continue for control of emergency and inform CIC and if required stops the construction activities in consultation with CIC.
- v. If required evacuate the persons from affected areas by sending them to the assembly points.
- vi. Guide response teams i.e., fire & rescue, first aid/medical and other personnel to take necessary actions.
- vii. Interact with CIC and brief him on possible effects on areas inside and outside the premises to initiate Off- Site Emergency Response Plan, if any.
- viii. Remain in touch with CIC and inform him about the situation & actions being taken and seek his advice for the critical decisions.
- ix. Ensure that the essential personnel have been called in at site
- x. Direct all operations within the affected area with following priorities –
  - Secure safety of personnel, giving priority to saving life and preventing further injury
  - Minimise damage to property and the environment
  - Minimise loss of material
  - Advice and inform as required by the emergency responders i.e., Fire and Security personnel or emergency services.
  - Preserve evidences, which would be necessary for subsequent investigation to find out the immediate and underlying causes of the emergency and for concluding preventive measures.

**c) Liaison Officer**

HoD HR would be the liaison officer at SJVN THERMAL (P). LTD., Buxar. On hearing the emergency siren or getting the information about emergency, he shall immediately come to ECC and provide necessary instructions to his team members. His Duties are:

- a. To arrange to send one security person to the assembly points for counting the persons assembled at the assembly points through time office for SJVN employees

however, contractor designated person will count the contract manpower assembled at assembly point.

- b. ensure that casualties receive adequate attention for immediate medical treatment and arrange additional medical help if so required
- c. Arrange to inform the relatives of the injured persons after taking permission from CIC.
- d. Arrange to keep ready alternative arrangements for transport to carry out the necessary work related to emergency.
- e. In case emergency prolongs, arrange relief for the personnel who are engaged in controlling emergency and organize refreshment or other canteen facilities.

**d) Materials Coordinator**

HoD MMG (Material Management Group) would be the Materials Coordinator for SJVN THERMAL (P). LTD., Buxar. On hearing the emergency siren or getting the information about emergency, he shall immediately rush to ECC and provide necessary instructions to his team members. His Duties are:

- i. Get the stores opened for requirement of the Firefighting/safety and other materials, which may be required during emergency.
- ii. Assess the situation in consultation with CIC and IC for any material requirement help at the affected site.
- iii. Ensure free movement of trucks of bulk materials, if required.

**e) Medical Coordinator**

Chief Medical Officer (CMO) would be the medical coordinator of SJVN THERMAL (P). LTD., Buxar however the medical facilities of Contractor will be used in case of emergency at construction site. On hearing the emergency siren or getting the information about emergency, he shall immediately perform following duties:

- i. Rush to the CIC on getting information about emergency by siren or telephone.
- ii. Depute First aiders for spot first aid.
- iii. Remain in touch with CIC for any help required.
- iv. if required, he shall send the seriously injured persons to the pre-identified hospitals

**f) Fire & Rescue Coordinator**

HoD Safety/CISF would be the Fire & Rescue Coordinator for SJVN THERMAL (P). LTD., Buxar. On getting message on telephone or by other means about emergency, he shall immediately rush to the affected site with his team and work under the command of Incident Controller.

- i. The Fire Team members shall immediately start fire-fighting operations.
- ii. The Rescue Team members shall search for any missing person/casualty and carry out rescue operation and brought to the Assembly point/ first aid center, where ambulance is to be available.
- iii. Ask additional help for cordoning off the area and advise fire personnel for rescue/firefighting, if required
- iv. Organize and supervise fire-fighting operations if called for.

- v. Provide necessary respiratory equipment for emergency use.
- vi. Advise IC to arrange additional help from nearby, if required, and
- vii. Give safety precautions to the personnel at rescue work.

**g) Security Coordinator**

HoD HR/ CISF would be the Security Coordinator for SJVN THERMAL (P). LTD., Buxar. On getting message on telephone or by other means about emergency, he shall immediately rush to the main security gate and arrange as follows:

- i. To call additional security personnel if required
- ii. Arrange to close all the Security gates except Main Gate for any kind of unauthorized entry in the plant.
- iii. Guide the Outside helping agencies such as Fire Brigade, ambulances to the emergency site
- iv. Arrange for traffic and mob control.
- v. Arrange to take the transporter trucks/vehicles outside the main gate.

**h) Engineering Coordinator**

Respective HoD would be Engineering Coordinator for SJVN THERMAL (P). LTD., Buxar. On getting message on telephone or by other means about emergency, he shall immediately rush to the incident site and arrange as follows:

- i. Arrange to send the personnel to the incident site to ensure the required equipments are in place and working.
- ii. To arrange electrical shut down of the affected area after getting information Incident Controller.
- iii. Make arrangements for necessary tools, forklift and any other machineries etc. for carrying out salvage operation to save the unaffected material from the affected site.
- iv. Make arrangements for emergency illumination/ lighting in case of power failure during nighttime.
- v. Arrange all available resources for efficient housekeeping and cleanliness after the emergency is over.

**i) Transport In-Charge**

HoD (Workshop & Transport) will be transport in-charge.

On hearing the emergency siren or getting the information about emergency he shall immediately rush to the ECC for providing vehicles for emergency duties and shifting casualties to nearby hospital.

### **3.5 OTHER FUNCTIONS**

#### **a) ECC Communicator**

On getting the information about the Emergency from incident controller, he shall inform immediately all the key personnel about the Incident individually on telephones and establish communication between ECC and emergency site.

#### **b) Person Who First Notices Emergency**

The initial response by individual to an emergency situation will make the difference, as every second counts. If anybody notices the fire or any other emergency they should act as follows:

- i. Inform immediately about the fire to the concerned site supervisor. Also make the announcement about the fire on Megaphone / PA system, if available.
- ii. Try to extinguish the fire with the help of fire extinguisher/ fire hydrant system. Take the help from others if required.
- iii. If the fire is extinguished at its initial stage inform site supervisor.

#### **c) Other Persons in case of emergency at the site premises**

All other persons in vicinity will:

- a. Rush to the emergency assembly point and wait for further instructions from their superior if they belong to the affected section/area.
- b. Continue their normal/routine work if they belong to the non-affected areas.

#### **d) Visitors**

All visitors inside the plant will return back immediately to the main gate in case of emergency situation and treat their gate pass as cancelled. They will wait at the main gate till the emergency situation is cleared off.

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## **4.0 EMERGENCY RESPONSE ARRANGEMENTS & FACILITIES**

### **4.1 Emergency Control Centre**

The Emergency Control Centre (ECC) is a place from where the Chief Incident Controller (CIC) would provide direction/guidance and coordinate various agencies/activities to effectively handle the emergency situation.

CEO office will be the ECC and alternate ECC will be Site Office conference room. CIC will proceed to that ECC and take overall control of the emergency. All the key personnel (except IC and the persons he would need) would assemble at ECC.

IC will conduct all operations to combat & control the emergency. He will guide fire & rescue, medical & other teams.

Equipment and Facilities Available In ECC

- Internal and external telephone lines separately
- A plot plan showing the location of
  - Areas where there is large inventory of combustible and toxic material
  - Fire hydrant system
  - Location of assembly points
  - Location of nearest hospitals/health Centre
  - Sources of Safety Equipment
  - Stock of firefighting equipment
  - Habitation within 2-kilometer distance
- Nominal roll call of employees (to be provided by the Liaison Officer during emergency).
- List of key personnel with their addresses, telephone / mobile numbers.
- List of outside emergency control agencies with their contact numbers.
- Stationary items
- First aid box

Manning of ECC during Emergency

- Chief Incident Controller and his alternate
- Assistant to CIC
- Telephone Attendant
- Key Personnel as per the Emergency Organogram.

### **4.2 Assembly Points**

All the persons of the emergency area, those are not part of immediate response teams, would evacuate their work area, if directed by respective IC, after declaration of emergency and report at the designated Assembly Point (AP). The decision to evacuate the work area will be taken by CIC after getting feedback from the Incident Controller. Evacuating visitors and handicapped persons would be the responsibility of the respective IC. The routes to be followed to reach the “Assembly Point” shall be known

as “Escape Routes” and are predetermined, kept free from obstructions and prominently marked on the plant layout drawing.

### 4.3 Assembly point Locations

There are Assembly Points in the plant as given below.

Assembly Point	Location	Who should assemble
1.	L&T Power Main Office	Workers of L & T, canteen staff, and other contract workers working in office
2.	Boiler area	Assigned Contract workers working plus supervisors of contractor, visitors of boiler area if any and company supervisors
3.	Chimney area	Assigned Contract workers working plus supervisors of contractor, visitors of Chimney area if any and company supervisors
4.	CW Fabrication yard	Assigned Contract workers working plus supervisors of contractor, visitors of CW fabrication yard if any and company Supervisors
5.	CHP & Wagon Tippler area	Assigned Contract workers working plus supervisors of contractor, visitors of CHP & Wagon Trippler area if any and company supervisors
6.	IDCT office area.	Assigned Contract workers, visitors in that area etc.
7.	Batching Plant area.	Assigned Contract workers working plus supervisors of contractor, visitors at batching plant, vehicle and heavy machine operators if any and company Supervisors

The above Assembly Point in-charges will be decided by the company management (Security Supervisor of that area) and they will act as Emergency Wardens. In case of emergency, they should take the roll call and ensure safety of personnel. If the wind direction for a particular assembly point is not favorable, the concerned assembly point in-charge would have to take on the spot decision for shifting the personnel under their control, to a safer location. In case someone is suspected to have been entrapped in the emergency, they should immediately inform to CIC and IC through personal mobile or use nearest contact point. After “All Clear” siren, all assembly point in-charge will report to ECC with list of roll call.

#### 4.4 Escape Routes

At the outbreak emergency it becomes essential to evacuate the affected personnel from the locations and assist them to assemble in the identified assembly points (AP). In order to carry out the evacuation, escape routes have been identified and designated. These routes have been marked in the SJVN THERMAL (P). LTD., layout drawing.

The following precautions have been ensured:

- Putting up identification boards with glow sign on the entry, exit and turnings of escape routes.
- Keeping routes free from obstructions
- Providing adequate Illumination on roads for movement of emergency services
- Maintaining roads in good order
- Keeping all doors for entry and exit unlocked and un-obstructed in all the departments

#### 4.5 Emergency Siren

- The emergency sirens will be installed at following locations. Depending on the nature of emergency; siren will be sounded for warning people in entire plant. If required more sirens can be installed in selected locations in future. Currently public address megaphone is used at site to warn about emergency.
- Proposed Location of the sirens are below:

Sr.no	Siren	Location	For the area
1.	1)	Batching Plant	Batching plant, main gate area, Time office area
2.	2)	ESP 2	Boiler, Chimney, ESP, Water reservoir area
3.	3)	Coal Handling Area	CHP and Wagon tippler
4.	4)	IDCT 2	IDCT 1 and 2, Fabrication yard office area.

- Sirens will be sounded from respective areas for alerting the workers and general people about the emergency.
- The emergency siren should be operated in the following modes:
  - a. Declaration Of Emergency: The siren will be operated with a wailing Sound of blowing siren for two minutes for 30 sec on and 15 sec off for three times.
  - b. All Clear: The siren will be operated with a continuous sound for two minutes. It would be activated only after the clearance from CIC in consultation with the IC.
  - c. Testing: All the emergency sirens will be tested during mock drill for two minutes.

#### 4.6 Wind Socks

Wind sock will be installed in the site and visible from all sides so as the site people can see the direction of the wind and escape safely in a direction perpendicular to the wind flow.

#### 4.7 Fire Fighting Facilities

First Aid firefighting equipment suitable for emergency is provided and will be maintained. The details are as given below:

Current Fire Fighting arrangement at construction site:

1. CO<sub>2</sub> extinguisher -62 numbers
2. DCP Extinguisher -62 numbers
3. Foam Extinguisher -10 numbers
4. Fire Bucket – 110 numbers

It is available at every strategic location of site, transformer area, main electrical panel, offices, porta cabin and all buildings.

Regular Firefighting classes and drills will be conducted for training of personnel.

#### 4.8 Medical Facilities

- The first aid with required facilities manned round the clock is available at site.
- Stretchers and general first aid materials for dealing with Chemical burns, fire burns etc. will be maintained in the first aid center.
- Breathing apparatus and other emergency medical equipment will be provided and maintained.
- Numbers of persons are selected and trained in first aid so that in every shift at least one first aid personnel with every contractor will be available at site.
- At least one number of First aid box is available with every contractor or work area for treatment of first aid cases if any.
- In case of emergency ambulance will sent to transport the emergency cases to first aid center and if required to nearby hospitals.
- Government hospital or ESI hospital will be approached for emergency help.

Details of facilities in First Aid center

- 24x7 doctor and paramedical staff (01 Doctor and 03 paramedical staff)
- Emergency medicines
- One bed in first-aid center.
- 03 bed facility made available at another porta cabin for covid'19 isolation and can be used in-case of multiple injuries
- Fully equipped Ambulance (02 at site & 01 is at labour camp).

## 4.9 Communication Facilities

- Employees would be warned by blowing emergency siren / Megaphone.
- Employees will be trained on escaping through specific routes, taking shelter, protecting from fire and other hazards.
- Workers would be provided with information related to fire hazards and first aid measures
- Those who are designated as key personnel and essential employees will be given training on emergency response methodology.

### Co-ordination with Local Authorities

- Keeping in view of the nature of emergency as decided and directed by CIC, two levels of coordination are proposed. In the case of an On-Site Emergency, resources within the organization would be mobilized and in the event of extreme emergency help from local authorities would be sought.
- In the event of an emergency developing into an off-site emergency, local authority and District emergency Authority (normally the District Magistrate/Collector) would be informed and Chief Incident Controller will function under the guidance of District Emergency Authority.
- For this purpose, the facilities that are available locally, i.e., medical, transport, personnel, rescue accommodation, voluntary organizations etc. would be mustered.
- Mutual aid in the form of technical personnel, runners, helpers, special protective equipment, transport vehicles, communication facility etc. will be sought, if situation so warrants.

## 4.10 Mock Drills & Surprise Drills

Emergency preparedness is an important aspect to prepare all employees mentally and physically in planning of an Emergency Management. Mock drills will be initially conducted after informing all to familiarize with the plan and thereafter followed by surprise drills to check the effectiveness. Mock drills will be practiced at frequent intervals, at least once in 6 months:

- To make everyone understand his functions during an emergency and act accordingly;
- To create an awareness among people about their conduct during the emergency as to ensure that emergency is tackled effectively & efficiently;
- To inculcate upon certain moral discipline among employees so that, they
  - Do not get panic during the emergency
  - Do not spread unauthenticated information
  - Do not approach the scene as a spectator and get affected by the situation in the process
  - Do not engage in the communication channels unnecessarily
  - Understand and be attentive to instructions
- All managers and supervisors get to know that their workers are properly directed through carefully planned simulation procedures to take safe position (assembly points) during an emergency situation

#### **4.11 Important Information**

Important information such as names and addresses of key personnel, essential employees, outside help, transporters' address, and address of those connected with Site Emergency such as Police, Local Authorities, Fire & Emergency Services, District Emergency Authority will be maintained.

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## 5.0 SITE RISK EVALUATION

### 5.1 Hazardous Chemicals / Materials, Inventory and Locations

SN	Hazardous Chemicals / Materials	Locations
1	NIL	NIL

Note- Any Hazardous material is not being used at site at currently. This list will be updated in future.

### 5.2 Preliminary Hazard Analysis

Few activities in the plant have been identified as hazardous activities. There are inherent hazards associated with these critical jobs. Preliminary hazard analysis (PHA) will be done in respect of some of these critical jobs and their emergency mitigating procedures are described as given below. In the similarly PHA of all the critical jobs are done.

#### Job Description: Gas Welding & Cutting Operation

Description	Potential Emergency	Emergency Mitigation	Emergency response Procedure
Handling of gas cylinders (Oxygen, & D.A, LPG)	<ul style="list-style-type: none"> <li>• Foot injury</li> <li>• Hand injury</li> </ul>	<ul style="list-style-type: none"> <li>• Use of appropriate P.P.E. like safety shoes, hand gloves.</li> <li>• Handling should be done through hand trolley or by forklift truck.</li> </ul>	<p>In case of emergency, the following measure should be adopted:</p> <p>Try for giving First Aid to the injured person and send him to Hospital.</p>
Fixing of gas hose, regulators, cutting torch etc.	Damage to gas hose, regulators, and cutting torch resulting leakage of gas.	<ul style="list-style-type: none"> <li>• All (Acetylene, Oxygen, LPG) cylinders must be kept in upright position &amp; be secured.</li> <li>• Inspection of all necessary accessories before they are taken in use.</li> </ul>	<p>Immediately inform to the -Office stating the nature of emergency.</p> <p>-Inform Department Head, executive Engineer &amp; Emergency coordinator</p>
Cleaning of surface to be cut or welded.	Hand injury while cleaning	Cleaning of surface to be carried out by using wire brush & use of cotton hand gloves to be	First aid to be provided to the injured and he should be shifted to Hospital

		Ensured	
Open the Knob of the cylinders & regulate the gas flow.	<ul style="list-style-type: none"> <li>• Back fire</li> <li>• Fire &amp; explosion</li> </ul>	<ul style="list-style-type: none"> <li>• Adjust pressure as per requirement of the job/ thickness.</li> <li>• Torch nozzle holes to be cleaned frequently.</li> <li>• Non return valve must be used in D.A. hose to avoid flash back.</li> </ul>	In case of fire try to extinguish fire by adopting fire emergency procedure.
Lighting of gas torch & adjust the flame.	Burn injury	<ul style="list-style-type: none"> <li>• Always keep a bucket of water in nearby area and cool down the cutting torch as &amp; when required.</li> <li>• Never try to get feel at flow using naked hand immediately after the flame in the torch is extinguished as this may lead to reappearance of fire (Due to residual fire) &amp; cause burn injury.</li> </ul>	Give first aid and shift victim to Hospital for further treatment.
Start cutting or gas welding	Occupational hazard.	Use mask to avoid occupational injury/ health hazards.	

**Job Description: Working ON DG Set**

Description	Potential Emergency	Emergency mitigation	Emergency response procedures
Storing and handling of Diesel.	Fire and explosion	<ul style="list-style-type: none"> <li>• Storage area are duly approved</li> <li>• Provision of bund wall to contain any emergency leakage</li> </ul>	<ul style="list-style-type: none"> <li>• Immediately communicate to the office stating nature of emergency.</li> <li>• Inform the</li> </ul>

Description	Potential Emergency	Emergency mitigation	Emergency response Procedures
		<p>from the tank.</p> <ul style="list-style-type: none"> <li>• Arrangement for cooling diesel tank by spraying water.</li> <li>• Arrangement for bonding &amp; grounding during transfer of diesel.</li> <li>• Adequate firefighting equipment is provided.</li> <li>• “No Smoking” sign are displayed.</li> </ul>	<p>Department Head, executive Engineer, Emergency Coordinator</p> <ul style="list-style-type: none"> <li>• Try to cordon the whole area and if possible, start first aid to the victim by taking them out of danger zone without affecting your own safety.</li> <li>• In case of Fire try to extinguish fire adopting Fire emergency planning procedure mentioned in emergency plan and you are trained in fire fighting</li> <li>• Provide First Aid and Shift victims to Hospital</li> <li>• Communication with local authorities and public.</li> <li>• Evacuate the complete area.</li> <li>• Training to the nearby villagers with respect to the above.</li> </ul>

## Job Description: Transportation, Handling and Storage of Gas Cylinders

Description	Potential Emergency	Emergency mitigation	Emergency response procedures
<p>Receiving Oxygen LPG and Dissolved acetylene from vendors.</p>	<ul style="list-style-type: none"> <li>• Leakage or damage of cylinder valve.</li> <li>• Fire</li> <li>• Explosion</li> <li>• Hand or foot Injury while handling cylinders.</li> </ul>	<ul style="list-style-type: none"> <li>• As per Rule 44 of the Gas Cylinder Rules, 2016 for license required for possession of gas cylinders should be checked.</li> <li>• Check cylinders physically for damage before use</li> <li>• While unloading the cylinder drop it softly on the 15-mm thick rubber belt piece or on tyre.</li> <li>• Keep cylinders under shed in a cool place</li> <li>• Handling is done by hand trolley and manually where movement of trolley is restricted.</li> <li>• Statutory clearance has to be obtained if norm of storing fifty O<sub>2</sub> cylinders or fifteen DA cylinders are exceeded</li> <li>• It is necessary to secure the cylinders when they are kept upright by suitable fixing arrangement.</li> <li>• Cylinders are never stacked more than four high if they are kept horizontally.</li> </ul>	<ul style="list-style-type: none"> <li>• In case of an emergency immediately communicate to the --- office stating the nature of emergency.</li> <li>• Inform the Department Head, Executive Engineer, Emergency Coordinator</li> <li>• Try to cordon the whole area and if possible start first aid to the victim by taking them out of danger zone without affecting your own safety.</li> <li>• In case of Fire try to extinguish fire adopting Fire emergency procedure mentioned in emergency plan</li> <li>• Provide First Aid and Shift the victim to Hospital</li> </ul>

Description	Potential Emergency	Emergency mitigation	Emergency response Procedures
		<ul style="list-style-type: none"> <li>• DA Cylinders should be kept or stored away from source of heat. It should be ensured that it is not kept under direct sun light/heat.</li> <li>• Oxygen regulator &amp; fittings should be kept away from all source of contamination such as oil, grease etc.</li> <li>• The recommended practice of lifting cylinders is to use fiber rope slings in lieu of the metal chains.</li> <li>• DA Cylinders must be color coded with maroon and Oxygen with black.</li> <li>• Keep Cylinders away from live electrical wires or electrical apparatus.</li> <li>• Valve protection cap must be maintained in place</li> <li>• Wear. hand gloves &amp; safety shoes while handling cylinders</li> <li>• Before putting cylinders in use examine for the validity of date of statutory test done &amp; marked on the name plate</li> </ul>	

## 5.3 SIGNIFICANT EMERGENCY SITUATIONS AND EVACUATION PROCEDURES

- **Likely Emergencies in the Site**

### **A. Construction Hazards**

- a) Work at height
- b) Work at confined space
- c) Excavation work
- d) Welding and cutting
- e) Electricity
- f) Fire and explosion
- g) Machinery related hazards
- h) Fall of material
- i) Road accidents

#### **a) Work at Height emergency**

The working at height at SJVN THERMAL (P). LTD. Buxar may result in fall from height emergency

- Existing control measures

- Work at height permit system is in place
- JSA study for work at height is conducted before issue of work permit
- Trained manpower is being used for conducting work at height
- Height pass test is compulsory for person working at height, only successful persons are allowed to do the job
- Access and platforms are provided for working at height
- Fall protection system is ensured while working at height

- In case of emergency

- Anyone noticing fall from the height will inform site supervisor
- When a fall happens, another worker as a first responder will assess the situation and make contact with the fallen worker, determining his status.
- In the meantime, site supervisor will contact the emergency services.
- Inform concern HODs/safety officer
- Immediately implement the rescue procedure in accordance with the company policy and safety guidelines.
- The rescuer should not endanger himself when carrying out a rescue procedure.
- The fallen person will be retrieved as soon as possible
- Based on the height at which person fallen, the type of rescue equipment will be decided for rescue
- Call ambulance at spot immediately

#### **b) Work at Confined space**

The working at confined space at construction site of SJVN THERMAL (P). LTD.

Buxar may result in fall from height emergency; person may unconscious due to oxygen deficiency, fall of materials or tools etc.

- Existing control measures
  - Work at Confined space permit system is in place
  - JSA study for working at confined space is conducted before issue of work permit
  - Tool box talk is carried out before starting work
  - Trained manpower is deployed for same
  - Access and platforms are provided
  - Fall protection system is ensured
  - For rescue one person is kept as stand by
  - SOP for confined space working is followed
  - Portable oxygen meters are ensured for checking oxygen level at confined space -
  
- In case of emergency
  - In case of emergency in confined space, inform site supervisor
  - The emergency services will be contacted and the site alerted about the accident.
  - Inform to concerned HODs/safety officer
  - Immediately implement the rescue procedure as per SOP.
  - The rescuer should not endanger himself when carrying out a rescue procedure.
  - Call ambulance at spot immediately

### **c) Excavation work**

The excavation work at SJVN THERMAL (P). LTD. Buxar may result in fall in excavated area; material may fall on working personnel, fall of machine or other equipment's etc.

- Existing control measures
  - Excavation Work permit system is in place
  - JSA study for same is conducted before issue of work permit
  - Trained manpower is being used for conducting excavation work
  - Access and platforms are provided
  - Excavation work is conducted under supervision
  
- In case of emergency
  - Anyone noticing emergency while performing excavation work will inform site supervisor
  - The emergency services will be contacted and the site alerted about the accident.
  - Inform concern HODs/safety officer
  - Immediately implement the rescue procedure in accordance with the SOP.
  - Call ambulance at spot if required

#### **d) WELDING AND CUTTING**

The welding and cutting works at SJVN THERMAL (P). LTD. Buxar may result in fire and explosion, gas leakage, fall of cylinder while handling, flash back etc.

- Existing control measures

- Hot Work permit system is in place
- JSA study for same is conducted before issue of work permit
- Trained manpower is being used for conducting Hot work
- Hot work will be conducted under supervision
- Flash back arrestors is provided at both ends of hoses
- First aid firefighting facilities is ensured before work at site
- For transportation of gas cylinders use of trolley is compulsory at site
- One person is kept stand by for stoppage of gas supply in case of emergency

- In case of emergency

- Anyone noticing emergency while performing hot work will inform site supervisor
- The emergency services will be contacted and the site alerted about the accident.
- Inform concern HODs/safety officer
- Immediately implement the fire fighting and rescue procedure in accordance with the SOP.
- Call ambulance at spot immediately

#### **e) ELECTRICAL HAZARDS**

The electrical works at SJVN THERMAL (P). LTD. Buxar may result in electrical Fire, FLASHOVER, transformer oil fire, electric short circuit, electrocution etc.

- Existing control measures

- Electrical Work permit system is established and practiced
- Trained manpower with CPR training is deployed for carrying out electrical work at site
- Electrical work is conducted under supervision
- Rubber mats is provided at electrical panels and electrical MCC rooms etc.
- First aid firefighting facilities is ensured like sand buckets, fire extinguishers and other required PPEs.
- ELCB of standard rating is provided at all switch boards and electrical panels etc. at site
- At HT lines arc flash suit, and related PPEs is ensured.

- In case of emergency

- Anyone noticing electrical emergency will inform site supervisor
- The emergency services will be contacted and the site alerted about the accident.
- Inform concern HODs/safety officer

- Immediately implement the fire fighting and rescue procedure in accordance with the SOP.
- Call ambulance at spot immediately

#### **f) FIRE AND EXPLOSION**

The Fire and explosion at SJVN THERMAL (P). LTD. Buxar may result in burn injuries, fatality, and property damage at site and nearby area

- Existing control measures
  - Work permit system is established and practiced at site
  - JSA for each type of work is prepared and complied at site before start of work
  - Trained manpower is deployed for carrying out various types of work at site
  - All types of construction works are carried out under supervision
  - First aid firefighting facilities is ensured.
- Procedure for Extinguishing Fire

#### **The following steps should be taken during a Fire Incident:**

- As soon as the message is received about fire, Firefighting team shall be diverted to the place of the fire accident site along with a staff member
- Simultaneously plant Emergency Control Center shall be informed by phone
- Fire stations nearby also be informed by phone to be in readiness;
- In the meanwhile, the fire hydrant system shall be operated to obtain maximum pressure and output
- In case live cables are within the reach of fire, power supply shall be made off and the cables shifted
- After extinguishing the fire, the area shall be prepared for re-use.
- IS:2190-1992 for” selection, installation and maintenance of first-aid fire extinguishers – code of practice” is generally followed
- In case of emergency

- Anyone noticing emergency will inform site supervisor
- The emergency services will be contacted and the site alerted about the accident.
- Inform concern HODs/safety officer
- Immediately implement the fire fighting and rescue procedure in accordance with the SOP.
- Call Fire tender and ambulance at spot immediately

#### **g) MACHINERY RELATED HAZARDS**

The material handling machineries like Hydras, different types of cranes and heavy earth moving machineries like Poclain, Dozers, Dumpers, trailers etc. at SJVN THERMAL (P). LTD. Buxar may result in injuries to personnel, damage to machineries and nearby areas.

- Existing control measures
  - Work permit system is established and practiced
  - Trained Drivers and other manpower are deployed for carrying out machine operations
  - TPI and fitness certificate of machineries is ensured before use
  - Trained driver with valid driving license is ensured for all such heavy machinery.
  - Preventive and breakdown maintenance of machineries is ensured.
  - Fencing of machinery is ensured to avoid any unsafe condition at site while working.
  - All practical steps are taken to prevent the earth moving, lifting and hoisting machinery etc. being operated in dangerous proximity to live overhead power lines.
  - Road safety measures is strictly adhered at site
  - First aid firefighting facilities is ensured.
  
- In case of emergency
  - Anyone noticing machineries related emergencies will inform site supervisor
  - The emergency services will be contacted and the site alerted about the accident.
  - Inform concern HODs/safety officer
  - Immediately implement the rescue procedure in accordance with the SOP.
  - Call ambulance at spot immediately, if required

#### **h) FALL OF MATERIAL**

The construction work poses hazard of fall of material at SJVN THERMAL (P). LTD. Buxar may result in body injuries, fatality, damage to equipment and property etc.

- Existing control measures
  - Work permit system is followed
  - Trained manpower is deployed for carrying out works at site
  - Works is carried out under supervision
  - Proper access, platforms with railings, toe boards etc. is ensured at site.
  - Safety net of required size will be provided at site and it is regularly cleaned.
  - Use of PPEs as per work requirement is ensured
  
- In case of emergency
  - Anyone noticing emergency will inform site supervisor
  - The emergency services will be contacted and the site alerted about the accident.
  - Inform concern HODs/safety officer
  - Immediately implement the emergency actions in accordance with the SOP.
  - Call ambulance at spot, if required.

#### **i) ROAD ACCIDENTS**

The Road accidents at SJVN THERMAL (P). LTD. Buxar may result in body injuries, fatality, damage to property and vehicle, fire etc.

- Existing control measures
  - Trained drivers with valid driving license are ensured for all vehicles including transport vehicles.
  - Defensive driving and behavior base safety training is imparted to drivers at site
  - “No smoking and No intoxication policy” are strictly followed
  - Road safety measures is strictly followed by drivers
  - Overtaking is strictly prohibited inside the site premises.
  - Speed limit is strictly adhered.
  - First aid firefighting facilities is ensured.
  
- In case of emergency
  - Anyone noticing road emergency will inform site supervisor
  - The emergency services will be contacted and the site alerted about the accident.
  - Inform concern HODs/safety officer
  - Arrange to barricade the accident site and avoid crowding at accident site.
  - Immediately implement the emergency procedure in accordance with the SOP.
  - Call ambulance at spot, if required.

## **B. Natural Calamities Which Can Lead to Emergency**

### **a) Earthquake**

The Buxar District falls under the seismic zone III, which is the high-risk area.

Earthquake cannot usually be forecasted and therefore precautions prior to such events are not usually predictable. Apart from some of the counter-measures to be taken in foreseeable cases, emergency recovery plan has been considered by the emergency management team as per the situation and site conditions as follows:

Step	Activity	Action By
Planning & Preparedness	<ul style="list-style-type: none"> <li>• Identify and constitute Emergency Response Team</li> <li>• Identify ECC, if the identified ones are damaged</li> <li>• Control centers to be equipped with               <ul style="list-style-type: none"> <li>➤ Communication facilities</li> <li>➤ Emergency vehicles/equipments</li> <li>➤ List of emergency contacts &amp; suppliers</li> <li>➤ Medical facilities</li> </ul> </li> </ul>	Plant Key Person
Action during effective period	<ul style="list-style-type: none"> <li>• Do not panic, Raise alarm</li> <li>• Avoid standing near to windows, external walls</li> <li>• Assemble at Emergency assemble point, if instructions are given</li> <li>• Expect aftershocks of similar or lesser intensity, do not panic</li> </ul>	Individual(s)

<p>Action after effective period (Establish Emergency Control Centre, Chief Incident Controller to direct all activities)</p>	<ul style="list-style-type: none"> <li>• Take head count</li> <li>• Activate emergency plan as situation demands</li> <li>• Assess situation and initiate stoppage of construction activities and associated works (if required)</li> <li>• Initiate search &amp; rescue (if required)</li> <li>• Provide first aid to victims.</li> <li>• Remove casualties</li> <li>• Key persons to report to site</li> <li>• Assess damage</li> <li>• Undertake restorative measures &amp; repairs</li> </ul>	<p>Incident Controller, Chief Incident Controller, Coordinators (Fire &amp; Security, Safety, Material, Medical) and Plant Key Person</p>
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**If you are indoor during earthquake do following things**

- Keep Calm, duck under the sturdy object and hold onto it until the shaking stop.
- If you are not near sturdy object, cover your head and neck with your arms
- Stay away from windows, bookcases, Shelves, mirrors and fire places
- Stay under cover until the shaking stops, and then follow the evacuation procedure
- Do not use elevators
- Assemble at designated nearest assembly point, if instructions are given and safe to do so
- Contact emergency organization as per chart

**If you are outdoor during earthquake do following things**

- Keep Calm, move away from trees, construction works, machineries and electrical pole wires etc.
- If driving, pull over to the side of road, stop, and stay inside the vehicle until the shaking is over
- Avoid overpasses, bridges, and electrical power lines
- Move away from fire and smoke if any
- Follow the evacuation procedure
- Assemble at nearest assembly point, if instructions are given and safe to do so
- Do not use elevators
- Contact emergency organization as per chart

**b) Storm**

The contingency actions during storm shall be based on the weather forecasts obtained from meteorological stations and the local meteorological department. Some of the important actions to be carried out are as follows:

- Prior to Storm
- Establish regular contact with the local meteorological department.

- Establish distances from storm in order to execute preparatory actions in a shorter time.
- Appraise the RCM and consider the consequences that the emergency might have on operations and personnel.
- Check the availability of tools, batteries, non-perishable foods and other materials that might be required.
- Review all operations carefully to ensure that systems in jeopardy are taken care of or stoppage.
- Ensure the readiness of first aiders, emergency vehicles, medical Centre, medicines etc.
- Metallic sheets, loose materials, empty drums and other light objects shall be properly secured.
- Flush the drainage systems.

- During Storm

- Remain calm
- Do not go outdoors and stand under Over Head power lines
- Do not seal the office completely as the suction created by the difference in atmospheric pressure inside and outside can rip open a window or door by breaking window glass panes

- After the Storm

- Do not touch electric lines.
- Stay away from the affected area.
- Take special precautions in driving vehicles since the under-pavement could cave in due to the weight of automobile.
- Check and ensure all electrical connection before charging the power line

### **c) Flood**

Flooding the facilities in SJVN Thermal (P). Limited, Buxar would occur if early prevention of such events is not undertaken. It is noted that such emergency usually develops gradually and there is usually adequate time to respond in order to prevent the condition from worsening.

- Initial Response

Possible flooding has potential that may adversely affect and damage the Construction site as well as equipment, the following should be followed:

- Assess the condition of the site;
- Raise concerns with the Incident controller
- Await further instructions from the Incident Controller and his team.

- Emergency Action Plan

Emergency Action Team shall inform the Incident Controller on the event.

The Incident controller shall assess the situation and decide if the situation warrants activation of the Emergency Response Plan.

The emergency action team shall perform specific tasks such as constructing a dyke around low areas and keeping ready for operation the high-capacity dewatering pumps etc., depending on instructions given by the Incident Controller.

If assistance from the external emergency services is required, the Incident Controller shall notify the RCM to make the necessary callout.

If the flood is beyond control and NDRF help require call NDRF team for help.

#### **d) Flash Flood: -**

Flash flood is the damaging floods that occur with little or no warning causing immense loss to life and property. Flash Floods usually takes place when rapidly rising and flowing surge of water reaching full peak within few minutes is generated as a result of excess rainfall or failure of impoundment.

The major causes those are responsible for floods and flash floods are:

- Cloudburst in upper catchments of the river.
- Excessive rainfall in the catchments.
- Sudden breach or failure of manmade or natural barriers.
- Change of river course.

- Early Warning System for Flash Floods

Forecasting and early warning helps in mitigating the effects of disasters. The loss of life and property can be considerably reduced with accurate and timely warning. Climate- meteorological disaster such as flash floods, avalanches etc. be predicted with certain degree of accuracy.

The Communication system is being utilized to alert the vulnerable groups and all the responders.

The timely flow of early warning system from the source to the targeted stakeholder is felt very important. The early warning system is fast need so that it reaches the stakeholders in minimum possible time by recognized means of communication.

### **C. Manmade emergencies like**

#### **a) Air Raid**

Air raid warning would be obtained from the District Emergency Authority or Defense Authorities, during which total blackout of the entire complex should be considered. Some of the contingency actions to be considered during an air raid are as follows:

- The Aviation Lights installed on highest point inside the factory shall be switched off.
- All the lighting on the Streets shall be put off.
- All the plant lighting shall be put off.
- Other emergency actions shall be followed in addition as per the general procedure.

### **b) Bomb Threat**

In view of the probable acts of terrorism, the possibility of receiving bomb threats or the sabotage cannot be ruled out. Therefore, consider all bomb threats as genuine and act accordingly keeping in mind the safety of the people at the construction site. For such situation, the security people will take action under the guidance of the Head (Security). The bomb threats may be received in writing or may be received on phone. The expected actions by telephone receiver are as follows:

- Keep the caller on the line as long as possible. Request him to repeat the message, listen carefully as every word spoken by the person has to be recorded mentally or penned down.
- If the caller does not indicate the location of the bomb or the time of possible detonation, it is advisable to try to ask him for this information.
- Pay particular attention to peculiar background noises such as motors running, background music and any other noise, which may give a clue as to from where the call is being made.
- Listen closely to the voice (male, female), voice quality (calm, excited), accents and speech impediments. Immediately after the caller hangs up, report should be made to the security officer on duty about all the above details.
- In consultation with CIC, it can immediately inform the nearest Police station over phone and also Bomb diffusion squad.
- If the location is identified, cordon-off the area and ask people to leave the area and assemble at designated assembly point.
- During strikes police will be informed by HR/Lacing in advance and take their help to maintain law and order.

### **c) Food and Water Poisoning**

Food and water poisoning to people, due to canteen food or other means, is another scenario which can lead to major emergency. In this case, medical coordinator would be informed immediately by the canteen Supervisor or person available at site and then to IC and CIC. In such situation additional help such as ambulances, doctors and medicine would be arranged from nearby hospitals. For such situations CIC may decide whether siren is required to blow or not and arrange to inform key persons at the construction site would rush to ECC and assist CIC for informing nearby hospitals, doctors and govt. authorities in consultation with the doctor.

Plan to deal with food & water poisoning can be divided in following stages:

Step	Activity	Action By
Planning & Preparedness	<ul style="list-style-type: none"> <li>• Maintain adequate inventory/ supply of medicines, saline water etc. and identify resources to obtain during emergency</li> <li>• Impart awareness training regarding food/water poisoning</li> </ul>	Medical Coordinator
Action during effective period <i>(Establish Emergency Control Center, Site Main Controller to direct all activities)</i>	<ul style="list-style-type: none"> <li>• Identify the contaminant source</li> <li>• Seize contaminated material and keep out of circulation</li> <li>• Take preventive measures for avoiding recurrence</li> <li>• Inform all concerned persons</li> <li>• Arrange to analyze samples</li> <li>• Arrange alternate supplies</li> <li>• Arrange medical assistance to the victims</li> <li>• Mobilize assistance from outside (if necessary)</li> </ul>	Chief Incident Controller, Medical coordinator
Action after effective period	<ul style="list-style-type: none"> <li>• Conduct detailed epidemiological investigation to identify the cause of contamination</li> <li>• Take appropriate preventive measures to avoid recurrence</li> <li>• Follow up on causalities</li> </ul>	Chief Incident Controller, Medical coordinator, and HOD (HR)

#### D. Pandemic/ Epidemic Emergencies

Now a days, most of the countries including India are going through medical emergency of COVID-19. COVID -19 pandemic is a Biological Disaster happened and resulted in number of deaths all over the world.

To overcome the COVID -19 Pandemic at SJVN THERMAL (P). LTD., Buxar, following measures has been taken & will also be followed till the situation exists:

- Central Government and State Government Guidelines for COVID-19 must be followed.
- The minimum number of workers required for construction and associated activities must be identified and accordingly Manpower shall be engaged.
- The visitors must not be allowed in the company
- The isolation period for employees coming from COVID 19 infected area shall be defined as per guidelines.
- The isolation facility shall be developed at SJVN THERMAL (P). LTD.

- The social distance, as per guidelines, will be maintained
- The Bio metric attendance by physical contact with machine will be stopped.
- The physical meetings will be cancelled and video conferencing or alternate safe way for meeting will be considered.
- The temperature of every employee entering the company premises will be monitored at gate by security by temperature monitoring equipment and only normal temperature employees will be allowed
- The food Hygiene of all workers will be ensured at company premises
- The use of PPE like nose mask, hand gloves, face shield etc. will be compulsory for workers entering the company

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## **6.0 NOTIFICATION AND COMMUNICATION SYSTEM**

Any worker/employee noticing an unusual event such as smoke, fire and/or explosion should immediately act as follows:

- Shout and warn others about emergency
- Dial emergency number or inform supervisor about details of emergency
- Inform supervisor, move to fire spot and try to extinguish the fire if you are trained in first aid firefighting. Immediately supervisor will inform to RCM.
- The person reporting the incident will remain near the location if safe to guide emergency crew arriving at the scene.

Instructions on- Giving the Message for Emergency

- i. Identify himself/herself
- ii. State briefly the type of emergency i.e., whether it is fire, explosion or a chemical release.
- iii. Give the location of the incident
- iv. Estimate the severity of the incident and return to the area of incident and await instructions from Supervisor.
- v. Check wind direction and move crosswind of the incident site.
- vi. Standby to render all required assistance

### **6.1 DECLARATION OF EMERGENCY**

- Minor Emergency

An emergency situation arising in any section of one particular area which is minor in nature, can be controlled within the affected site itself with the help of in-house resources available at site and the fire department. Such emergencies should be informed to IC. Such emergency does not have the potential to cause serious injury or damage to property/environment and doesn't have domino effect on to other sections of the site or on nearby areas. For such emergencies there is no need to activate the plant level siren and follow procedures laid down in this Emergency Preparedness Plan.

- Major Emergency

An emergency which cannot be controlled locally and has the potential to develop into a major emergency with a potential to cause serious injuries or damage to property/environment within the affected area or to the nearby areas, within or outside plant boundary, should be considered as a major emergency, it needs immediate action and this Plan would need to be activated. Such emergency situations always warrant mobilizing the necessary internal and external resources to handle the emergency and mitigate its consequences.

## **- Immediate Actions during Emergency**

- i. The RCM available at site at the time of emergency must immediately inform IC (Incident Controller) and CIC about the possible escalation of emergency.
- ii. After receipt of call, IC will rush to the incident site, keeping wind direction in mind.
- iii. Take appropriate action to control the situation.
- iv. IC assesses the situation and if it is beyond his control, informs the CIC (Chief Incident Controller)
- v. CIC would get in touch with ECC.
- vi. The attendant in the ECC would inform the identified members (emergency key personnel) of ECC.
- vii. CIC would then rush to ECC.
- viii. After assuming the position of CIC in ECC, he shall be assisted by key persons of emergency organization.
- ix. CIC will set up communication with IC about the situation. After communication with IC, if it is beyond control, then CIC would declare an Emergency and ask for actuating siren and put Emergency Preparedness Plan to action.
- x. After receipt of phone call or message from CIC or Concern IC, Fire/Security Control Room operator will blow the siren.
- xi. In case situation is beyond control and going to be outside plant boundary or vicinity, CIC would declare off-site emergency and inform the District Emergency Authority about emergency.
- xii. In case of off-site emergency, CIC will function under the guidance of District Emergency Administration (Usually headed by District Magistrate/collector).

## **6.2 Procedure for Sounding the Emergency Siren**

Emergency siren will be installed at site. On declaration of emergency, siren will be sounded for communicating to all regarding impending emergency and evacuation. The siren will be sounded for declaration of emergency as described in point 4.6

## **6.3 Sequence of Actions after Declaration of Emergency**

- a) After declaration of an emergency, CIC instructs Liaising Officer to notify the nearby Hospitals, Police Stations and other Organizations for help.
- b) The CIC contacts IC to know about the incident.
- c) The identified teams carry out their respective functions
- d) The other site personnel, except key personnel and those have role during emergency occupy their respective offices and follow instructions from CIC.
- e) CIC should interact with the IC and other senior persons in other areas.
- f) IC in consultation with the other team leaders at the site of emergency informs the situation to CIC.
- g) CIC in consultation with the IC and other key personnel decides whether to stop the construction and other associated activities.
- h) If evacuation of the people at the other areas is required, CIC will inform respective HoD of the area to evacuate and ask them to assemble at their respective assembly points.
- i) If the CIC orders evacuation, all personnel not belonging to emergency organization (not required for emergency handling directly) should proceed to the notified assembly point and wait for further instructions.

## **6.4 Communication**

### **a) Persons**

The ECC coordinator present in ECC or other designated person will act as ECC operator during emergency. Responsibilities - ECC Operator

- To receive all incoming calls and note them down in the Standard Format
- To contact CIC and other persons as required by the Incident Controller (IC)
- To ensure that communication system is always kept in good working condition.
- To keep records of all incoming and outgoing calls

### **b) Communication of Emergency**

Communication to persons inside the factory and outside is considered vital for effective handling of the emergency.

As the emergency develops, it becomes necessary to communicate with personnel all over the factory such as personnel in the affected area, personnel in other threatened areas, and more importantly, the key personnel.

Communication can be by one or more of the following means/modes:

- Actuating the siren (as detailed above),
- Declaration of emergency and
- Give specific instructions, using public address system, SMS, intercoms if available.

The IC briefs the CIC about the status of the incident or emergency, its likelihood to affect other areas. He also discusses with CIC the approach he would follow in controlling the incident. The CIC consult with other key personnel and briefs them on the strategy he would like to follow and seeks their views and as well as instructs them on emergency response.

### **c) External Communication**

- Key Personnel Not Immediately Available at the Site

CIC gets in touch with the key personnel and instructs them on emergency response actions.

- Communication to Nearby Communities

CIC through Liaising Officer establishes contact with the identified (pre- determined) key persons in the neighboring communities, if situation demands.

- Communication with Local Authorities and Emergency Response Agencies

The CIC through Liaising Officer will inform the local authorities such as District Collector, Nearest Police Station, the Directorate of Factories, the State Pollution Control Board & the office of Controller of Explosives etc.

- Name & Contact Numbers of Key Personnel and Emergency Response Agencies

A telephone directory will be prepared and kept at strategic places such as ECC, entrance gate, site offices.

- Designated Persons for Interaction with Media

HR Head would be the company's authorised spokesperson for interacting with media, newspapers, TV channels, etc.

- Procedure for Notifying Families of Injured Persons

Communication to the families regarding injury/fatality would be the responsibility of HR Head. The messages should not make the family panic but give the factual information as to where the injured persons are receiving for treatment.

## **6.5 Central Reporting Office**

ECC would be the central reporting office during the emergency.

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## **7.0 FIREFIGHTING AND OTHER FACILITIES AVAILABLE**

Current Fire Fighting arrangement at construction site:

1. CO<sub>2</sub> extinguisher -62 numbers
2. DCP Extinguisher -62 numbers
3. Foam Extinguisher -10 numbers
4. Fire Bucket – 110 numbers

It is available at every strategic location of site, transformer area, main electrical panel, offices, porta cabin and all buildings.

Water Take up points-

1. Batching plant #1 – Feeding arrangement available
2. Old office of L&T Power, near Transformer-2 Feeding arrangement available
3. L&T Power Main office
4. IDCT #2
5. Boiler #2
6. Chimney area

Note: - Fully equipped CISF Firefighting team will be established in coming future.

\*\*\*

## **8.0 RESTORATION OF NORMALCY**

### **8.1 Authorisation**

Only CIC is authorised to take the decision to “call off” the emergency only after consulting the Incident Controller and other key personnel that the situation is under control and the emergency is over. He will then order to actuate the ALL-CLEAR siren. In case of off-site emergency CIC will “call off” emergency, as instructed by District Emergency Authority.

### **8.2 Declaration of the End of Emergency**

The emergency would be considered to have ended on the actuation of “ALL- CLEAR” siren.

### **8.3 Communication of the Declaration of the End of Emergency**

- All persons within the Construction sites are informed through the “ALL-CLEAR SIREN”.
- External agencies, viz., District Collector Office, Factory Inspectorate, Police etc. are again contacted by the Liaising Officer or his Alternate to communicate the end of emergency.
- Inform by CIC to the Corporate/Head Office about end of emergency.

### **8.4 Restoring Normalcy**

When the “ALL-CLEAR” siren is sounded, it indicates end of emergency. However, each site shall resume to normal operation after assessing the situation and by following the laid down procedures.

### **8.5 Sequence of Actions After the “All-Clear Siren” is actuated**

- i) CIC contacts all sites key personnel to communicate them the emergency has been called off and instructs for actions to be taken by the person inside.
- ii) The Engineering In charge in each location takes a small meeting of all his workers and briefs them and instructs them to go back to their workplaces or as directed by CIC.
- iii) The IC in consultation with CIC takes necessary steps to resume normal work.
- iv) Construction activities and other associated activities are resumed as per the laid down procedures

\*\*\*

## **09. TRAINING AND EMERGENCY DRILLS**

### **09.1 Training**

Training would be undertaken as follows:

### **09.2 Training of emergency teams**

All the Team Leaders would undergo training in the following areas:

- Knowledge of hazardous chemicals handled; their physical, chemical and hazardous properties, MSDS, what to do during emergency related to the chemical, antidotes etc.
- Procedure for reporting emergency
- Siren System
- Location-wise types and the numbers of fire extinguishers, and how to use them, etc.
- Types, numbers and locations of different types of PPE (including SCBA and fire suit), situations where they should be used, method of using, etc.
- Fundamentals of rescue and first aid.
- Evacuation Procedure, i.e., assembling at the designated Assembling Points, head-count, their records, followed by method of evacuation.
- Documentation of emergencies.

### **09.3 Training of Emergency Responders**

Different emergency responder teams would be given in-depth training on the various aspects of responses such as Fire Fighting, Rescue Operations, First Aid, , Traffic Control, Head-Count at Assembly Point, etc.

### **09.4 Training of Team Leaders, Incident Controllers and Chief Incident Controller**

A training workshop will be conducted to understand not only role of individual Team Leader, but also issues of coordination, chain of command, etc. through simulation and Table-Top Exercises. Periodic refresher training would also be needed.

The above training would be periodical. The training department, in consultation with HR head would decide the periodicity.

### **09.5 Emergency Drills**

The emergency response plans and emergency preparedness level would be tested through the following drills:

1. Table-top exercise (TTE)

2. Functional exercise (FE)
3. Full-scale exercise (FSE)

All elements/procedures of the Emergency Preparedness Plan would be first tested through TTE and perfected to the extent possible. The Plan then would be modified/ updated. Functional Exercises basically to ensure proper functioning of various equipment such as the fire-fighting equipment and the fire hydrant system. The Full-Scale Drill would be conducted to know the level of preparedness of all teams. Initially, TTE and FE would be conducted periodically.

The following drills are conducted periodically:

- Plant Emergency Drills (fire scenario involving evacuation)

## 09.6 Periodicity and Responsibility

Serial number	Type of Drill	Frequency	Responsibility
1	Fire drill	Once in 3 months	To be decided by company
2	Plant emergency (fire scenario at transformer, flooding of power house involving evacuation)	Once in six months to start with	To be decided by company

After each drill, there should be a critical review by all participants (including the drill observers). All suggestions and recommendations would be noted for future reference. These will be the basis for the periodic review and updating of the Emergency Management Plan. This way the plan gets more and more refined and updated.

\*\*\*

## 10. REGULAR TESTS OF EMERGENCY PROCEDURES

As mentioned against sec. 9.5 & 9.6 above, drills, regular tests of functioning of Emergency Organisation as well as procedures would be carried out through exercises based on simulated emergencies. Besides these exercises, the tests would include –

- i) **Siren System** – The Siren System would be tested during mock drill and run for 2-minute duration. The testing would include – activation system, check intensity of the siren from different places so that all in the Plants can distinctly hear it.
- ii) Two nos. of Fire Tenders will be procured for handling emergencies at site and will be maintained. The checking of the fire tender will be carried out with the help of checklist for daily, fortnightly and monthly checks.
- iii) **Portable Fire Extinguishers** – Testing of operation of different types of fire extinguishers and their periodical inspection, charging, repair/ replacement of parts, etc. will be planned as per the approved schedule. All the fire extinguishers will be physically inspected & tested periodically, i.e. every month and records of such inspections are maintained. This also includes testing and operation of the portable fire extinguishers that can be done through conducting drills. It would serve benefit of testing the operation and at the same time provide opportunity to the personnel to test their skill in handling this equipment. Record of such drills would be kept. The prime responsibility for the testing, inspection and examination is with Fire Department.
- iv) **Evacuation practice** – This includes how to assemble at Assembly Points; take head count and transporting them to a safer place. This practice would be done twice in a year.

In extreme situation employee's vehicle can also be used during emergency for evacuation of persons.

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## **11 PLAN REVIEW AND UPDATING**

It is necessary that the Emergency Preparedness Plan to be 'tested' periodically. As mentioned under Chapters 8 and 9, the testing of the plan would be through Table-Top Exercises, Functional Exercises and Full-Scale Drills.

### **11.1 Review of The Plan**

This plan is a dynamic document and would be reviewed/ updated in the following situations:

- i) The plan would be tested from time to time (details given under Sec. 8). Short comings/ lacunas that would be surfaced during testing of the plan, would be recorded/ documented, discussed during debriefing session following the test, decisions are taken to include them in the plan.
- ii) If there were a change in process(s), which may add scenario(s) of possible emergencies, the plan would be modified taking into account these additional scenario(s).
- iii) Change in contact details such as addresses and telephone numbers.
- iv) If no changes in process and manpower then the plan will be reviewed once in three years.

### **11.2 Responsibility**

Updating the Plan would be the responsibility of the designated Safety Officer. This would also include updating of contact information such as address, telephone numbers, hazards etc.

### **11.3 Procedure**

The Plan would be updated after approval from CEO in writing. The designated Safety Officer would submit the proposal as mentioned in Sec. 9.2 above duly supported by justifications to the HoD. After its approval, update the plan and circulate it to the concerned persons. If there is any change in the Division/Department such as name, telephone no. then section head would inform in writing to the Safety Officer for such change no authorization is required.

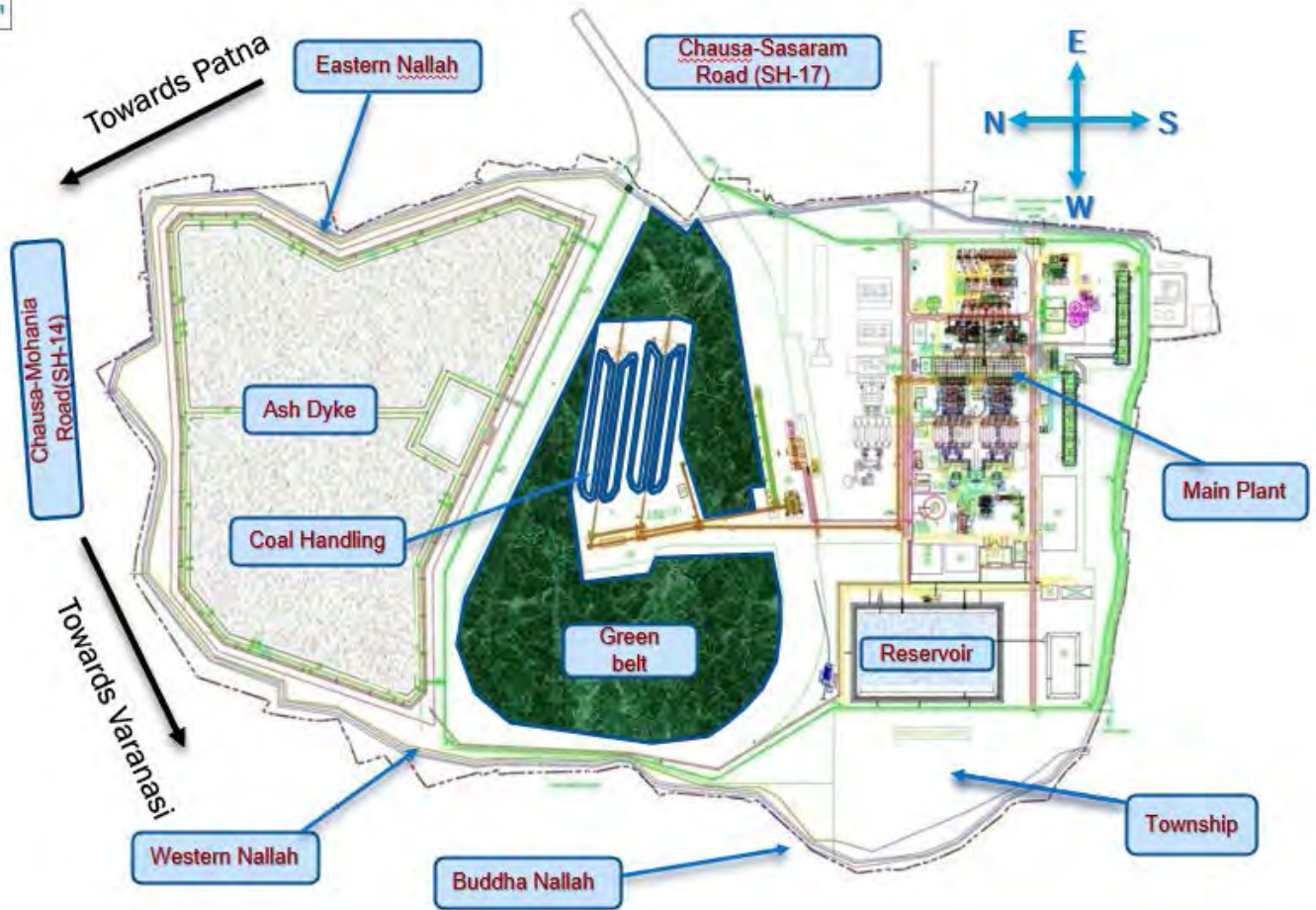
### **11.4 Controlled Copies of the Plan**

The Emergency Preparedness Plan when approved by the management, sufficient number of copies would be printed; each copy would be identified by a serial number and issued to different persons who have roles to play during the emergency. A register would be maintained indicating which identified copy is issued to a specific person. Complete responsibility of getting the management's approval, printing a number of copies, giving them identification numbers, issuing them, registering the issue, would be the responsibility of the Head (safety). It will also be his responsibility to replace the copies after each modification by giving them identification numbers and re- registering them. This is required to ensure that only up-dated copies are with different personnel.

LOCATION MAP



PROJECT LAYOUT





**IMPORTANT CONTACTS IN AN EMERGENCY**

<b>Sr. no</b>	<b>Member</b>	<b>Office No.</b>	<b>Mobile No.</b>
1	CEO, STPL	06183-295105	09418475698
2	CFO, STPL	06183-295163	09418475173
3	CMO	-----	08091766175
4	HOD (BOP)	06183-295028	09932008800
5	HOD (Mechanical)	06183-295168	09630089352
6	HOD (Civil)	06183-295275	09818158668
7	HOD (Electrical IT and Store)	06183-295285	09418189626
8	HOD (P&C)	06183-295154	09418027517
9	HOD (Rail & Infra)	-----	09418129436
10	HOD (QA/Safety)	06183-295211	09418473548
11	HOD (Vigilance)	06183-295167	09418075542
12	HOD (HR)	06183-295106	09418475228
13	HOD (MIS)	-----	09418453824

**LIST OF HOSPITALS**

<b>Sr. No.</b>	<b>Name</b>	<b>Distance from Plant (KM)</b>	<b>Contact No.</b>
1	Buxar Sadar Hospital, Nai Bazar	15	9470003163
2	PHC, Chausa	3	9431021214
3	PHC, Rajpura	9.9	9470003165

**CONTACT DETAILS OF GOVERNMENT AUTHORITIES**

<b>Sr. no.</b>	<b>Authority</b>	<b>Contact</b>
1	District Collector	9473191239
2	Superintendent of Police (SP)	9431822981
3	Inspector of Factories	8709030776
4	Fire officer Buxar	7667810014
5	BOCW Inspector	7004860905

**FIRE FIGHTING & MEDICAL SERVICES**

<b>Sr. no.</b>	<b>Concern</b>	<b>Contact Detail</b>
1	HoD(HR)	9418475228
3	Government Hospital	9431021214 (PHC, Chausa)
4	Main Gate	9576294175
5	Ambulance	9523396819 9334396990
6	Fire Station	9801437926 ( Chausa), 9801437926 (Buxar)
7	Police Station	9431822327(Chausa)

## **LIST OF SAFETY INVENTORY**

❖ **List of PPEs**

<b>Sr. No.</b>	<b>Description of item</b>
1	Industrial Safety Helmet
2	Safety Shoes
3	Safety Reflecting Jacket
4	Safety Goggle
5	Hand Gloves
6	Self-contained Breathing Apparatus*
7	Safety harness Belt*
8	Fire Proximity Suit*
9	Ear Muffs*
10	Pollution Mask/Nose Mask*
11	Led Adjustable Head lamps
12	Gum Boot

Note: - Other work specific required PPEs will be procured in future as per work requirement.

❖ **List of Safety Equipments**

<b>Sr. No.</b>	<b>Items</b>
1	Multi-gas detector
2	O2 detector
3	Vetter lifting bag*
4	High beam light torch
5	Caution tape

\*Item will be procured in coming future.

**TEST REPORT**

ULR : TC1122025200018970F

Party Code : S/BHR/18922  
 \*Issued to : SJVN Thermal Pvt. Ltd.  
 Buxar Thermal Power Project, Main Office Building,  
 Mohanpurwa, Akhouripur Gola, Chausa, Buxar-  
 802114, Bihar

\*Sample Name : Noise Monitoring (Ambient)

REPORT NO. : SE1108002325/N  
 \*Customer Ref.No. : NS  
 \*Reference Date : NS  
 Date of Sampling : 01/11/2025 To 02/11/2025  
 Date of Received : 08/11/2025  
 Date of Issue : 14/11/2025  
 Start Date of Analysis : 08/11/2025  
 Date of Completion : 14/11/2025  
 Environmental Condition : 25±2°C, RH50±15%  
 Sample Condition : OK  
 \*Sample Qty. : NS  
 SOP/Sampling Plan : SIMA/ENV/SOP/025  
 Test Method Deviation : NA  
 Sample Collection : Sample Collected By Us

**RESULTS OF ANALYSIS**  
 Reference : - EP Act Standard/IS:9989

Sample Description : Ambient Noise level of M/S SJVN Thermal Pvt. Ltd. was monitored by us from  
01/11/2025 to 02/11/2025  
 Name of Industry : SJVN Thermal Pvt. Ltd.  
 Location of the Sampling Point : STPL Township  
 Date of Sampling : 01/11/2025 to 02/11/2025  
 Sampling Period : 24 Hrs.  
 Day Time : 06:00AM to 10:00PM  
 Night Time : 10:00PM to 06:00AM

S.No.	Parameters	Unit	Result	Protocol
1.	Leq.	dB(A)	58.6	IS:9989-1981 Reaff:2014
2.	L-10	dB(A)	69.7	IS:9989-1981 Reaff:2014
3.	L-50	dB(A)	61.5	IS:9989-1981 Reaff:2014
4.	L-90	dB(A)	51.4	IS:9989-1981 Reaff:2014
5.	L-(max.)	dB(A)	72.1	IS:9989-1981 Reaff:2014
6.	L-(min.)	dB(A)	44.9	IS:9989-1981 Reaff:2014
7.	Leq.-(Day)	dB(A)	64.8	IS:9989-1981 Reaff:2014
8.	Leq.-(Night)	dB(A)	52.3	IS:9989-1981 Reaff:2014

Limits Leg. dB(A) :-	Industrial Area	Commercial Area	Residential Area	Silence Zone
Day Time	75	65	55	50
Night Time	70	55	45	40

--- End of Test Report ---

Neeraj Singh Adhikari  
 Reviewed By

Authorized Signatory

Diwakar Jha  
 G.M Technical Environment

**Remarks:** 1. This Test Report is not valid without a hologram.

- The Results listed refer only to the above tested sample & applicable parameters. Endorsement of products is neither inferred nor implied.
- Liability of laboratory is limited to the invoiced amount only. Any dispute arising out of this report shall be subject to Delhi jurisdiction only.
- This Test Report is not to be reproduced wholly or in part as evidence in the Court of law without written permission from SIMA Labs Pvt. Ltd.
- The Test Report should not be used wholly or in part in any advertising media without written permission from SIMA Labs Pvt. Ltd.
- The sample(s) of Drugs & Cosmetics will be destroyed after one year, Perishable samples (Other than Drugs & Cosmetics) will be destroyed after 7 days and non perishable samples will be destroyed after 30 days of the date of issue of Test Report or unless otherwise specified.
- SIMA Labs Pvt. Ltd. will not be held responsible for the authenticity of any photocopied, forged and or partially presented test reports.
- SIMA Labs Pvt. Ltd. will ensure all corrective action as per our policy in case of any discrepancy in any sample tested by SIMA Labs Pvt. Ltd.
- Re-testing charges will be applicable in case the results are reproducible
- Duplicable copy will be issued on chargeable basis
- SIMA Stands for : Sophisticated Industrial Materials Analytic

Page : 1 of 1

VS



Scan for Accreditation &amp; Scope



# SIMA LABS

Sophisticated Industrial Materials  
Analytic Labs Pvt. Ltd.

(GOVT. APPROVED TESTING LABORATORIES)

Address : A-3/7, Mayapuri Industrial Area,  
Ph-II, New Delhi - 110064

Phone : +(91)-(011) 43854300

Email : reports@simalab.com

CIN No : U74899DL1988PTC031785

Website : www.simalab.net | www.simalab.com



## TEST REPORT

ULR : TC1122025200018973F

Party Code : S/BHR/18922  
\*Issued to : SJVN Thermal Pvt. Ltd.  
Buxar Thermal Power Project, Main Office Building,  
Mohanpurwa, Akhouripur Gola, Chausa, Buxar-  
802114, Bihar

REPORT NO. : SE1110000225/N  
\*Customer Ref.No. : NS  
\*Reference Date : NS  
Date of Sampling : 07/11/2025 To 08/11/2025  
Date of Received : 10/11/2025  
Date of Issue : 14/11/2025  
Start Date of Analysis : 10/11/2025  
Date of Completion : 14/11/2025  
Environmental Condition : 25±2°C, RH50±15%  
Sample Condition : OK  
\*Sample Qty. : NS  
SOP/Sampling Plan : SIMA/ENV/SOP/025  
Test Method Deviation : NA  
Sample Collection : Sample Collected By Us

\*Sample Name : Noise Monitoring (Ambient)

### RESULTS OF ANALYSIS Reference : - EP Act Standard/IS:9989

Sample Description : Ambient Noise level of M/S SJVN Thermal Pvt. Ltd. was monitored by us from  
07/11/2025 to 08/11/2025  
Name of Industry : SJVN Thermal Pvt. Ltd.  
Location of the Sampling Point : Labour Colony  
Date of Sampling : 07/11/2025 to 08/11/2025  
Sampling Period : 24 Hrs.  
Day Time : 06:00AM to 10:00PM  
Night Time : 10:00PM to 06:00AM

S.No.	Parameters	Unit	Result	Protocol
1.	Leq.	dB(A)	56.8	IS:9989-1981 Reaff:2014
2.	L-10	dB(A)	67.7	IS:9989-1981 Reaff:2014
3.	L-50	dB(A)	59.5	IS:9989-1981 Reaff:2014
4.	L-90	dB(A)	49.4	IS:9989-1981 Reaff:2014
5.	L-(max.)	dB(A)	70.1	IS:9989-1981 Reaff:2014
6.	L-(min.)	dB(A)	41.8	IS:9989-1981 Reaff:2014
7.	Leq.-(Day)	dB(A)	64.9	IS:9989-1981 Reaff:2014
8.	Leq.-(Night)	dB(A)	48.7	IS:9989-1981 Reaff:2014

Limits Leq. dB(A) :-	Industrial Area	Commercial Area	Residential Area	Silence Zone
Day Time	75	65	55	50
Night Time	70	55	45	40

--- End of Test Report ---

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Reviewed By

Authorized Signatory

Diwakar Jha  
G.M Technical Environment

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Email : reports@simalab.com

CIN No : U74899DL1988PTC031785

Website : www.simalab.net | www.simalab.com



## TEST REPORT

ULR : TC1122025200018971F

Party Code : S/BHR/18922

\*Issued to : SJVN Thermal Pvt. Ltd.

Buxar Thermal Power Project, Main Office Building,  
Mohanpurwa, Akhouripur Gola, Chausa, Buxar-  
802114, Bihar

REPORT NO. : SE1108002525/N

\*Customer Ref.No. : NS

\*Reference Date : NS

Date of Sampling : 03/11/2025 To 04/11/2025

Date of Received : 08/11/2025

Date of Issue : 14/11/2025

Start Date of Analysis : 08/11/2025

Date of Completion : 14/11/2025

Environmental Condition : 25±2°C, RH50±15%

Sample Condition : OK

\*Sample Qty. : NS

SOP/Sampling Plan : SIMA/ENV/SOP/025

Test Method Deviation : NA

Sample Collection : Sample Collected By Us

\*Sample Name : Noise Monitoring (Ambient)

### RESULTS OF ANALYSIS

Reference : - EP Act Standard/IS:9989

Sample Description : Ambient Noise level of M/S SJVN Thermal Pvt. Ltd. was monitored by us from  
03/11/2025 to 04/11/2025

Name of Industry : SJVN Thermal Pvt. Ltd.

Location of the Sampling Point : STPL Office Complex

Date of Sampling : 03/11/2025 to 04/11/2025

Sampling Period : 24 Hrs.

Day Time : 06:00AM to 10:00PM

Night Time : 10:00PM to 06:00AM

S.No.	Parameters	Unit	Result	Protocol
1.	Leq.	dB(A)	55.5	IS:9989-1981 Reaff:2014
2.	L-10	dB(A)	66.1	IS:9989-1981 Reaff:2014
3.	L-50	dB(A)	57.9	IS:9989-1981 Reaff:2014
4.	L-90	dB(A)	47.8	IS:9989-1981 Reaff:2014
5.	L-(max.)	dB(A)	68.5	IS:9989-1981 Reaff:2014
6.	L-(min.)	dB(A)	41.8	IS:9989-1981 Reaff:2014
7.	Leq.-(Day)	dB(A)	61.4	IS:9989-1981 Reaff:2014
8.	Leq.-(Night)	dB(A)	49.6	IS:9989-1981 Reaff:2014

Limits Leq. dB(A) :-	Industrial Area	Commercial Area	Residential Area	Silence Zone
Day Time	75	65	55	50
Night Time	70	55	45	40

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CIN No : U74899DL1988PTC031785

Website : www.simalab.net | www.simalab.com



## TEST REPORT

ULR : TC1122025200018972F

Party Code : S/BHR/18922

\*Issued to : SJVN Thermal Pvt. Ltd.

Buxar Thermal Power Project, Main Office Building, Mohanpurwa, Akhouripur Gola, Chausa, Buxar-802114, Bihar

REPORT NO. : SE1108002725/N

\*Customer Ref.No. : NS

\*Reference Date : NS

Date of Sampling : 04/11/2025 To 05/11/2025

Date of Received : 08/11/2025

Date of Issue : 14/11/2025

Start Date of Analysis : 08/11/2025

Date of Completion : 14/11/2025

Environmental Condition : 25±2°C, RH50±15%

Sample Condition : OK

\*Sample Qty. : NS

SOP/Sampling Plan : SIMA/ENV/SOP/025

Test Method Deviation : NA

Sample Collection : Sample Collected By Us

\*Sample Name : Noise Monitoring (Ambient)

### RESULTS OF ANALYSIS Reference : - EP Act Standard/IS:9989

Sample Description : Ambient Noise level of M/S SJVN Thermal Pvt. Ltd. was monitored by us from 04/11/2025 to 05/11/2025

Name of Industry : SJVN Thermal Pvt. Ltd.

Location of the Sampling Point : STPL Main Gate

Date of Sampling : 04/11/2025 to 05/11/2025

Sampling Period : 24 Hrs.

Day Time : 06:00AM to 10:00PM

Night Time : 10:00PM to 06:00AM

S.No.	Parameters	Unit	Result	Protocol
1.	Leq.	dB(A)	58.8	IS:9989-1981 Reaff:2014
2.	L-10	dB(A)	70.7	IS:9989-1981 Reaff:2014
3.	L-50	dB(A)	62.5	IS:9989-1981 Reaff:2014
4.	L-90	dB(A)	52.4	IS:9989-1981 Reaff:2014
5.	L-(max.)	dB(A)	73.1	IS:9989-1981 Reaff:2014
6.	L-(min.)	dB(A)	44.0	IS:9989-1981 Reaff:2014
7.	Leq.-(Day)	dB(A)	67.4	IS:9989-1981 Reaff:2014
8.	Leq.-(Night)	dB(A)	50.1	IS:9989-1981 Reaff:2014

Limits Leq. dB(A) :-	Industrial Area	Commercial Area	Residential Area	Silence Zone
Day Time	75	65	55	50
Night Time	70	55	45	40

--- End of Test Report ---

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TC-11220



## TEST REPORT

ULR : TC1122025200019027F

Party Code : S/BHR/18922  
\*Issued to : SJVN Thermal Pvt. Ltd.

Buxar Thermal Power Project, Main Office  
Building, Mohanpurwa, Akhouripur Gola, Chausa,  
Buxar-802114, Bihar .

REPORT NO. : SE1108002225/N

\*Customer Ref.No. : NS

\*Reference Date : NS

Date of Sampling : 01/11/2025 To 02/11/2025

Date of Received : 08/11/2025

Date of Issue : 15/11/2025

Start Date of Analysis : 08/11/2025

Date of Completion : 14/11/2025

Environmental Condition : 25±2°C, RH50±15%

Sample Condition : OK

\*Sample Qty. : NS

SOP/Sampling Plan : SIMA/ENV/SOP/012

Test Method Deviation : NA

Sample Collection : Sample Collected By Us

\*Sample Name : Ambient Air

### RESULTS OF ANALYSIS

Reference : As Per EP Act-1986

Sample Description : One Ambient Air sample was collected by us from 01/11/2025 to 02/11/2025

Name of Industry : SJVN Thermal Pvt. Ltd.

Location of the Sampling Point : North of colony & Towards west of chimney

Date of Sampling : 01/11/2025 To 02/11/2025

Sampling started at : 11:55 AM (Dt. 01/11/2025)

Sampling completed at : 11:55 AM (Dt. 02/11/2025)

Actual time of sampling : 1440 minutes

Flow rate of sampling : 1.18 m<sup>3</sup>/minute

Total volume of air sampled : 1699 m<sup>3</sup> (For PM 10) & 23.994 m<sup>3</sup> (For PM 2.5)

Ambient temperature (°C) : 27

S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
1.	Particulate Matter (as PM -10)	µg/m <sup>3</sup>	86.5	100	IS:5182 (P-23)	NA
2.	Particulate Matter (as PM - 2.5)	µg/m <sup>3</sup>	46.3	60	IS:5182 (P-24)	NA
3.	Nitrogen Dioxides (as NO <sub>2</sub> )	µg/m <sup>3</sup>	29.1	80	IS:5182 (P-6)	NA
4.	Sulphur Dioxide (as SO <sub>2</sub> )	µg/m <sup>3</sup>	19.2	80	IS:5182 (P-2)	NA



*Neeraj Singh Adhikari*

Neeraj Singh Adhikari

Reviewed By

Authorized Signatory

*Diwaker Jha*

Diwaker Jha

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CIN No : U74899DL1988PTC031785

Website : www.simalab.net | www.simalab.com



## TEST REPORT

ULR : TC1122025200019027F

Party Code : S/BHR/18922

REPORT NO. : SE1108002225/N

S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
5.	Carbon Monoxide (as CO) (8 hours)	mg/m <sup>3</sup>	1.151	2.0	IS:5182 (P-10) Method-C	NA
6.	Benzene (as C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	BDL	5.0	IS:5182 (P-11)	0.5
7.	Ammonia (as NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL	400	IS:5182 (P-25)	20
8.	Ozone (as O <sub>3</sub> ) (8 hours)	µg/m <sup>3</sup>	22.5	100	IS:5182 (P-9)	NA
9.	Lead (as Pb)	µg/m <sup>3</sup>	BDL	1.0	SIMA/ENV/STP/003 , Issue No.1 , Issue date 16.03.2024	0.03
10.	Arsenic (as As)	ng/m <sup>3</sup>	BDL	6	SIMA/ENV/STP/003 , Issue No.1 , Issue date 16.03.2024	1.5
11.	Nickel (as Ni)	ng/m <sup>3</sup>	BDL	20	SIMA/ENV/STP/003 , Issue No.1 , Issue date 16.03.2024	1.5
12.	Benzo (a) Pyrene (Bap)	ng/m <sup>3</sup>	BDL	1.0	IS:5182 (P-12)	0.06

NA-Not Applicable, BDL- Below Detection Limit

The above mentioned parameters meets the specification of EP Act Standard.

--- End of Test Report ---



*Neeraj Singh Adhikari*

Neeraj Singh Adhikari  
Reviewed By

Authorized Signatory

*Diwakar Jha*

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G.M Technical Environment

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**TEST REPORT**

**ULR : TC1122025200019028F**

Party Code : S/BHR/18922  
 \*Issued to : SJVN Thermal Pvt. Ltd.

REPORT NO. : SE1108002425/N  
 \*Customer Ref.No. : NS

Buxar Thermal Power Project, Main Office  
 Building, Mohanpurwa, Akhouripur Gola, Chausa,  
 Buxar-802114, Bihar

\*Reference Date : NS  
 Date of Sampling : 03/11/2025 To 04/11/2025

Date of Received : 08/11/2025

Date of Issue : 15/11/2025

Start Date of Analysis : 08/11/2025

Date of Completion : 14/11/2025

Environmental Condition : 25±2°C, RH50±15%

Sample Condition : OK

\*Sample Qty. : NS

SOP/Sampling Plan : SIMA/ENV/SOP/012

Test Method Deviation : NA

Sample Collection : Sample Collected By Us

\*Sample Name : Ambient Air

**RESULTS OF ANALYSIS**

Reference : As Per EP Act-1986

Sample Description : One Ambient Air sample was collected by us from 03/11/2025 to 04/11/2025

Name of Industry : SJVN Thermal Pvt. Ltd.

Location of the Sampling Point : North west of rail bulb & North west of chimney

Date of Sampling : 03/11/2025 To 04/11/2025

Sampling started at : 12:25 PM (Dt. 03/11/2025)

Sampling completed at : 12:25 PM (Dt. 04/11/2025)

Actual time of sampling : 1440 minutes

Flow rate of sampling : 1.19 m<sup>3</sup>/minute

Total volume of air sampled : 1714 m<sup>3</sup> (For PM 10) & 24.010 m<sup>3</sup> (For PM 2.5)

Ambient temperature (°C) : 27

S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
1.	Particulate Matter (as PM -10)	µg/m3	88.6	100	IS:5182 (P-23)	NA
2.	Particulate Matter (as PM - 2.5)	µg/m3	47.5	60	IS:5182 (P-24)	NA
3.	Nitrogen Dioxides (as NO2)	µg/m3	29.7	80	IS:5182 (P-6)	NA
4.	Sulphur Dioxide (as SO2)	µg/m3	20.9	80	IS:5182 (P-2)	NA



*Neeraj Singh Adhikari*

Neeraj Singh Adhikari

Reviewed By

Authorized Signatory

*Diwakar Jha*

Diwakar Jha

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CIN No : U74899DL1988PTC031785

Website : www.simalab.net | www.simalab.com



TC-11220



## TEST REPORT

ULR : TC1122025200019028F

Party Code : S/BHR/18922

REPORT NO. : SE1108002425/N

S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
5.	Carbon Monoxide (as CO) (8 hours)	mg/m3	1.168	2.0	IS:5182 (P-10) Method-C	NA
6.	Benzene (as C6H6)	µg/m3	BDL	5.0	IS:5182 (P-11)	0.5
7.	Ammonia (as NH3)	µg/m3	BDL	400	IS:5182 (P-25)	20
8.	Ozone (as O3) (8 hours)	µg/m3	22.9	100	IS:5182 (P-9)	NA
9.	Lead (as Pb)	µg/m3	BDL	1.0	SIMA/ENV/STP/003 , Issue No.1 , Issue date 16.03.2024	0.03
10.	Arsenic (as As)	ng/m3	BDL	6	SIMA/ENV/STP/003 , Issue No.1 , Issue date 16.03.2024	1.5
11.	Nickel (as Ni)	ng/m3	BDL	20	SIMA/ENV/STP/003 , Issue No.1 , Issue date 16.03.2024	1.5
12.	Benzo (a) Pyrene (Bap)	ng/m3	BDL	1.0	IS:5182 (P-12)	0.06

NA-Not Applicable, BDL- Below Detection Limit

The above mentioned parameters meets the specification of EP Act Standard.

--- End of Test Report ---



*Neeraj Singh Adhikari*

Neeraj Singh Adhikari  
Reviewed By

Authorized Signatory

*Diwakar Jha*

Diwakar Jha  
G.M Technical Environment

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## TEST REPORT

ULR : TC1122025200019029F

Party Code : S/BHR/18922

\*Issued to : SJVN Thermal Pvt. Ltd.

Buxar Thermal Power Project, Main Office  
Building, Mohanpurwa, Akhouripur Gola, Chausa,  
Buxar-802114, Bihar .

REPORT NO. : SE1108002625/N

\*Customer Ref.No. : NS

\*Reference Date : NS

Date of Sampling : 04/11/2025 To 05/11/2025

Date of Received : 08/11/2025

Date of Issue : 15/11/2025

Start Date of Analysis : 08/11/2025

Date of Completion : 14/11/2025

Environmental Condition : 25±2°C, RH50±15%

Sample Condition : OK

\*Sample Qty. : NS

SOP/Sampling Plan : SIMA/ENV/SOP/012

Test Method Deviation : NA

Sample Collection : Sample Collected By Us

\*Sample Name : Ambient Air

### RESULTS OF ANALYSIS

Reference : As Per EP Act-1986

Sample Description : One Ambient Air sample was collected by us from 04/11/2025 to 05/11/2025

Name of Industry : SJVN Thermal Pvt. Ltd.

Location of the Sampling Point : North east of chimney & East of ash dyke

Date of Sampling : 04/11/2025 To 05/11/2025

Sampling started at : 01:30 PM (Dt. 04/11/2025)

Sampling completed at : 01:30 PM (Dt. 05/11/2025)

Actual time of sampling : 1440 minutes

Flow rate of sampling : 1.175 m<sup>3</sup>/minute

Total volume of air sampled : 1692 m<sup>3</sup> (For PM 10) & 23.991 m<sup>3</sup> (For PM 2.5)

Ambient temperature (°C) : 27

S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
1.	Particulate Matter (as PM -10)	µg/m <sup>3</sup>	89.1	100	IS:5182 (P-23)	NA
2.	Particulate Matter (as PM - 2.5)	µg/m <sup>3</sup>	48.8	60	IS:5182 (P-24)	NA
3.	Nitrogen Dioxides (as NO <sub>2</sub> )	µg/m <sup>3</sup>	30.6	80	IS:5182 (P-6)	NA
4.	Sulphur Dioxide (as SO <sub>2</sub> )	µg/m <sup>3</sup>	22.2	80	IS:5182 (P-2)	NA



*Neeraj Singh Adhikari*

Neeraj Singh Adhikari

Reviewed By

Authorized Signatory

*Diwaker Jha*

Diwaker Jha

G.M Technical Environment

Remarks: 1. This Test Report is not valid without a hologram.

2. The Results listed refer only to the above tested sample & applicable parameters. Endorsement of products is neither inferred nor implied.

3. Liability of laboratory is limited to the invoiced amount only. Any dispute arising out of this report shall be subject to Delhi jurisdiction only.

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6. The sample(s) of Drugs & Cosmetics will be destroyed after one year, Perishable samples (Other than Drugs & Cosmetics) will be destroyed after 7 days and non perishable samples will be destroyed after 30 days of the date of issue of Test Report or unless otherwise specified.

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9. Re-testing charges will be applicable in case the results are reproducible.

10. Duplicable copy will be issued on chargeable basis.

11. SIMA Stands for Sophisticated Industrial Materials Analytic

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Sophisticated Industrial Materials  
Analytic Labs Pvt. Ltd.

(GOVT. APPROVED TESTING LABORATORIES)

Address : A-3/7, Mayapuri Industrial Area,  
Ph-II, New Delhi - 110064

Phone : +(91)-(011) 43854300

Email : reports@simalab.com

CIN No : U74899DL1988PTC031785

Website : www.simalab.net | www.simalab.com



TC-11220



## TEST REPORT

ULR : TC1122025200019029F

Party Code : S/BHR/18922

REPORT NO. : SE1108002625/N

S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
5.	Carbon Monoxide (as CO) (8 hours)	mg/m3	1.175	2.0	IS:5182 (P-10) Method-C	NA
6.	Benzene (as C6H6)	µg/m3	BDL	5.0	IS:5182 (P-11)	0.5
7.	Ammonia (as NH3)	µg/m3	BDL	400	IS:5182 (P-25)	20
8.	Ozone (as O3) (8 hours)	µg/m3	23.2	100	IS:5182 (P-9)	NA
9.	Lead (as Pb)	µg/m3	BDL	1.0	SIMA/ENV/STP/003 , Issue No.1 , Issue date 16.03.2024	0.03
10.	Arsenic (as As)	ng/m3	BDL	6	SIMA/ENV/STP/003 , Issue No.1 , Issue date 16.03.2024	1.5
11.	Nickel (as Ni)	ng/m3	BDL	20	SIMA/ENV/STP/003 , Issue No.1 , Issue date 16.03.2024	1.5
12.	Benzo (a) Pyrene (Bap)	ng/m3	BDL	1.0	IS:5182 (P-12)	0.06

NA-Not Applicable, BDL- Below Detection Limit

The above mentioned parameters meets the specification of EP Act Standard.

--- End of Test Report ---



*Neeraj Singh Adhikari*

Neeraj Singh Adhikari  
Reviewed By

Authorized Signatory

*Diwakar Jha*

Diwakar Jha  
G.M Technical Environment

- Remarks:
1. This Test Report is not valid without a hologram.
  2. The Results listed refer only to the above tested sample & applicable parameters. Endorsement of products is neither inferred nor implied.
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  9. Re-testing charges will be applicable in case the results are reproducible.
  10. Duplicable copy will be issued on chargeable basis.
  11. SIMA Stands for : Sophisticated Industrial Materials Analytic

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Phone : +(91)-(011) 43854300

Email : reports@simalab.com

CIN No : U74899DL1988PTC031785

Website : www.simalab.net | www.simalab.com



TC-11220



## TEST REPORT

ULR : TC1122025200019030F

Party Code : S/BHR/18922  
\*Issued to : SJVN Thermal Pvt. Ltd.

REPORT NO. : SE1110000125/N

\*Customer Ref.No. : NS

Buxar Thermal Power Project, Main Office  
Building, Mohanpurwa, Akhouripur Gola, Chausa,  
Buxar-802114, Bihar .

\*Reference Date : NS

Date of Sampling : 07/11/2025 To 08/11/2025

Date of Received : 10/11/2025

Date of Issue : 15/11/2025

Start Date of Analysis : 10/11/2025

Date of Completion : 14/11/2025

\*Sample Name : Ambient Air

Environmental Condition : 25±2°C,RH50±15%

Sample Condition : OK

\*Sample Qty. : NS

SOP/Sampling Plan : SIMA/ENV/SOP/012

Test Method Deviation : NA

Sample Collection : Sample Collected By Us

### RESULTS OF ANALYSIS

Reference : As Per EP Act-1986

Sample Description : One Ambient Air sample was collected by us from 07/11/2025 to 08/11/2025

Name of Industry : SJVN Thermal Pvt. Ltd.

Location of the Sampling Point : East of chimney & Near main entry

Date of Sampling : 07/11/2025 To 08/11/2025

Sampling started at : 02:15 PM (Dt. 07/11/2025)

Sampling completed at : 02:15 PM (Dt. 08/11/2025)

Actual time of sampling : 1440 minutes

Flow rate of sampling : 1.19 m<sup>3</sup>/minute

Total volume of air sampled : 1714 m<sup>3</sup> (For PM 10) & 24.007 m<sup>3</sup> (For PM 2.5)

Ambient temperature (°C) : 27

S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
1.	Particulate Matter (as PM -10)	µg/m <sup>3</sup>	91.6	100	IS:5182 (P-23)	NA
2.	Particulate Matter (as PM - 2.5)	µg/m <sup>3</sup>	50.8	60	IS:5182 (P-24)	NA
3.	Nitrogen Dioxides (as NO <sub>2</sub> )	µg/m <sup>3</sup>	31.3	80	IS:5182 (P-6)	NA
4.	Sulphur Dioxide (as SO <sub>2</sub> )	µg/m <sup>3</sup>	22.8	80	IS:5182 (P-2)	NA



*Neeraj Singh Adhikari*

Neeraj Singh Adhikari

Reviewed By

Authorized Signatory

*Diwakar Jha*

Diwakar Jha

G.M Technical Environment

Remarks: 1. This Test Report is not valid without a hologram.

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Email : reports@simalab.com

CIN No : U74899DL1988PTC031785

Website : www.simalab.net | www.simalab.com



TC-11220



## TEST REPORT

ULR : TC1122025200019030F

Party Code : S/BHR/18922

REPORT NO. : SE1110000125/N

S.No.	Parameters	Units	Results	Limit (Max)	Protocols	Detection Limit
5.	Carbon Monoxide (as CO) (8 hours)	mg/m3	1.182	2.0	IS:5182 (P-10) Method-C	NA
6.	Benzene (as C6H6)	µg/m3	BDL	5.0	IS:5182 (P-11)	0.5
7.	Ammonia (as NH3)	µg/m3	BDL	400	IS:5182 (P-25)	20
8.	Ozone (as O3) (8 hours)	µg/m3	23.6	100	IS:5182 (P-9)	NA
9.	Lead (as Pb)	µg/m3	BDL	1.0	SIMA/ENV/STP/003 , Issue No.1 , Issue date 16.03.2024	0.03
10.	Arsenic (as As)	ng/m3	BDL	6	SIMA/ENV/STP/003 , Issue No.1 , Issue date 16.03.2024	1.5
11.	Nickel (as Ni)	ng/m3	BDL	20	SIMA/ENV/STP/003 , Issue No.1 , Issue date 16.03.2024	1.5
12.	Benzo (a) Pyrene (Bap)	ng/m3	BDL	1.0	IS:5182 (P-12)	0.06

NA-Not Applicable, BDL- Below Detection Limit

The above mentioned parameters meets the specification of EP Act Standard.

--- End of Test Report ---



*Neeraj Singh Adhikari*

Neeraj Singh Adhikari

Reviewed By

Authorized Signatory

*Diwakar Jha*

Diwakar Jha

G.M Technical Environment

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हिन्दुस्तान

पटना • गुरुवार • 09 मार्च 2017 • 04

## मैसर्स एसजेवीएन थर्मल (प्रा.) लि. को पर्यावरणीय मंजूरी

पर्यावरण, वन एवं जलवायु परिवर्तन (एमओईएफ एंड सीसी) मंत्रालय के दिनांक 28 फरवरी, 2017 के पत्र सं. जे. 13012/69/2008-आईए.आई(टी) के तहत बिहार में बक्सर जिले के चौसा गांव में प्रस्तावित "कोयले पर आधारित 2x660 मेगावाट के सुपर क्रिटिकल बक्सर थर्मल पावर परियोजना (बीटीपीपी)" को पर्यावरणीय मंजूरी प्रदान की है।

मंजूरी पत्र की प्रति बिहार राज्य प्रदूषण नियंत्रण बोर्ड के पास उपलब्ध है तथा इसके एमओईएफ एंड सीसी की वेबसाइट <http://envfor.nic.in> तथा [www.http://sjvn.nic.in](http://www.http://sjvn.nic.in) पर भी देखा जा सकता है।

जायीकर्ता: **मुख्य कार्यकारी अधिकारी**

**मैसर्स एसजेवीएन थर्मल (प्रा.) लि.**

(भारत सरकार के अधीन एक मिनी रत्न तथा शेड्यूल (ए)

पीएसयू-एसजेवीएन लि. की पूर्व स्वामित्व वाली अधीनस्थ कंपनी)

कार्यालय: नव दुर्गा कॉम्प्लेक्स, द्वितीय तल, अम्बेडकर चौक, कलेक्टर रोड,

बक्सर-802101 दूरभाष: 06183-223105

हिन्दुस्तान न्यूज पेपर दिनांक-9 मार्च 2017 को प्रकाशित  
किया गया।

अभि.

सूचनार्थ - मुख्य कार्यकारी अधिकारी

एन एस ओ

प्रमुख (ईएसएम)

NT

## मेसर्स एसजेवीएन थर्मल ( प्रा. ) लि.

को पर्यावरणीय मंजूरी

पर्यावरण, वन एवं जलवायु परिवर्तन (एमओईएफ एंड सीसी) मंत्रालय के दिनांक 28 फरवरी, 2017 के पत्र सं० जे 13012/69/2008-आईए,आई(टी) के तहत बिहार में बक्सर जिले के चौसा गांव में प्रस्तावित "कोयले पर आधारित 2x660 मेगावाट के सुपर क्रिटिकल बक्सर थर्मल पावर परियोजना (बीटीपीपी)" को पर्यावरणीय मंजूरी प्रदान की है।

मंजूरी पत्र की प्रति बिहार राज्य प्रदूषण नियंत्रण बोर्ड के पास उपलब्ध है तथा इसके एमओईएफ एंड सीसी की वेबसाइट <http://envfor.nic.in> तथा [www.http://sjvn.nic.in](http://sjvn.nic.in) पर भी देखा जा सकता है।

जारीकर्ता : मुख्य कार्यकारी अधिकारी

मेसर्स एसजेवीएन थर्मल ( प्रा. ) लि.

( भारत सरकार के अधीन एक मिनी रत्न तथा शेड्यूल (ए) पीएसयू-एसजेवीएन लि. की पूर्ण स्वामित्व वाली अधीनस्थ कंपनी )

कार्यालय : नव दुर्गा कॉम्प्लेक्स, द्वितीय तल,  
अम्बेदकर चौक, कलेक्टरेट रोड, बक्सर - 802101

दूरभाष : 06183-223105

दैनिक जागरण 5 मार्च 2017 को प्रकाशित किया गया,

सूचनाार्थ :- मुख्य कार्यकारी अधिकारी  
सीएफ ओ  
प्रमुख (सीएफओ/एम)

NR

2017-6/3



SJVN Thermal Pvt. Ltd.

Appendix-20

एसजेवीएन थर्मल प्रा0 लिमिटेड

(A wholly owned subsidiary of SJVN Ltd- A Mini Ratna & Scheduled 'A' PSU under Govt. of India)

2<sup>nd</sup> Floor, Nav Durga Complex, Collectoriate Road, Ambedkar Chowk, Buxar - 802101

**OFFICE OF CEO**

☎: 06183-223105 ☎: 06183-223165

Email: ceostpl@gmail.com/hopbtppl@gmail.com

CIN:U31908BR2007PTC017646

सं0स:एस.टी.पी.एल./बी.टी.पी.पी./पर्या0/2017-680

दिनांक: 03.03.2017

सेवा में,

मुखिया, चुन्नी पंचायत/बक्सर जिला/बक्सर  
चौसा, बक्सर।

विषय: 2X660 मेगावाट बक्सर थर्मल पॉवर प्रोजेक्ट, बक्सर को भारत सरकार के पर्यावरण, वन एवं जलवायु परिवर्तन (एमओईएफ एंड सीसी) मंत्रालय द्वारा पर्यावरणीय मंजूरी प्रदान करने के संबंध में सूचना।

महोदय,

आपको सहर्ष सूचित किया जाता है कि एसजेवीएन थर्मल प्रा0 लि0 के बक्सर जिले के चौसा में प्रस्तावित "कोयले पर आधारित 2X660 मेगावाट के सुपर क्रिटिकल बक्सर थर्मल पॉवर प्रोजेक्ट (बीटीपीपी)" को भारत सरकार के पर्यावरण, वन एवं जलवायु परिवर्तन (एमओईएफ एंड सीसी) मंत्रालय द्वारा पर्यावरणीय मंजूरी प्रदान कर दी गई है। मंजूरी की सूचना पत्र संख्या J-13012/69/2008-IA.I (T) इंदिरा पर्यावरण भवन, जोरबाग रोड, अलीगंज, नई दिल्ली दिनांक 28.02.2017 के द्वारा इस कार्यालय में प्राप्त हुई है। उपरोक्त पत्रलिपि की प्रति आपके एवं आपके जनसमान्य हेतु सूचनार्थ संलग्न है।

धन्यवाद।

भवदीय,

मुखिया, चुन्नी पंचायत  
बक्सर जिला  
बक्सर  
दिनांक: 03.03.17

(प्रवीन गुप्ता)

मुख्य कार्यकारी अधिकारी

संलग्नक: यथोपरी।

अनंद कुमार  
(ब.जा.पूर)

# SJVN Thermal (P) Ltd.

(A wholly owned subsidiary of SJVN Ltd.- A Mini Ratna &  
Schedule 'A' PSU under GoI)  
Buxar Thermal Power Project (1320 MW)

CIN:U31908BR2007PTC017646

Email: liaisonpatna@gmail.com

Ref: STPL/BTPP/Envt./17-199

Date: April 20, 2017

The Additional Principal Chief Conservator of Forests (C),  
Ministry of Environment Forest and Climate Change,  
Regional office (Eastern-Central Zone Region)  
Bungalow No. A-2, Shyamali Colony,  
Ranchi - 834 002 (Jharkhand)

बिहार राज्य प्रदूषण नियंत्रण पार्षद  
पाटलीपुत्रा औद्योगिक क्षेत्र, पटना-13

24 APR 2017

प्राप्त किया

Attn.: Sh. Kanwarjit Singh, IFS

Sub: Environment Clearance of 1320 MW Buxar Thermal Power Project- regarding.

Dear Sir,

With reference to the subject cited matter, it is submitted that SJVN Thermal (P) Limited, a subsidiary of SJVN Limited (A Miniratna Schedule 'A' CPSU) is implementing the 1320 MW Buxar Thermal Power Project (BTPP) in village Chausa, district Buxar, Bihar. Environment clearance has been accorded to the project by MoEF&CC vide letter no. J-13012/69/2008-IA.1 (T) dated 28.02.2017. (Copy enclosed)

In this regard, in compliance of the letter of environmental clearance, the following information/data is kindly submitted to your good office for reference and records.

- The final EIA/EMP report and additional information submitted to MoEF&CC for seeking environment clearance in hard and soft copy.
- The project information sheet in the prescribed format in hard and soft copy.
- Copy of the advertisement published in local newspapers for publicizing the grant of environmental clearance.
- A copy of the environment clearance letter has also been uploaded on SJVN's website; [www.sjvn.nic.in](http://www.sjvn.nic.in)

It is kindly submitted that the project execution work shall be started after obtaining PIB & CCEA approval and the project commissioning has accordingly been planned during FY 2022-2023. We further undertake that STPL shall comply with all conditions stipulated in the Environment Clearance letter and will be submitting the first six monthly compliance report (for period of April 2017- September 2017) in the month of October 2017 and thereafter half yearly regularly to your office.

In addition, it is kindly requested that all future correspondence to this office may be addressed to the Chief Executive Officer, SJVN Thermal Pvt. Ltd. 2<sup>nd</sup> floor, Navdurga Complex, Near Ambedkar Chowk, Collectorate Road, Buxar -802101 E-mail: [liaisonpatna@gmail.com](mailto:liaisonpatna@gmail.com), Phone: 06183-223168, 9630089352

Contd

We hope the above information is line with your requirements.

Thanking You,  
Yours Faithfully,

*Parveen Gupta* 24/04/2017

(Parveen Gupta)  
Chief Executive Officer

Encl.(s): As above

Copy: For kind information please:

1. Member Secretary, Bihar State Pollution Control Board, Parivesh Bhawan, Patliputra Industrial Area, Patn

