SI No.	Stakeholders	Action Plans	Status	Summary of Compliance (Please select)	Timelines for Completion	Enforcement Agency/ Department
1	M/s NTPC Limited (Singrauli) Shakti Nagar Sonbhadra	Take measures to stop the discharge of ash pond overflow into the Rihand reservoir	Discharge of decanted ash pond water from OFL was for short period during monsoon period due to excesive rain. At present there is no discharge in to Rihand reservoier. NTPC Shakti Nagar have taken short-term and long-term remedial actions which are as under: Short-term: Additional pipe line to increase AWRS flow by 500 m3/hr has been installed. A Sump pit alongwith pump & line commissioned to re-circulate seepage if any. Long-term: Augmentation of AWRS capacity by installing another pump (2000 m3/hr. capacity). <u>OC's Comments</u> : The underground Hume pipe which was constantly discharging effluent from the ash pond overflow lagoon into the Rihand reservoir has been sealed through the heavy metallic plate. At present the water level of the Rihand reservoir has reduced due to which the said underground Hume pipe is visible. The unit has sealed the said pipe through reinforcement in order to avoid any	In-Process	March 2025 (Extended from July 2023)	UPPCB
		Relocation of the OCEMS in order to achieve the desired iso-kinetic sampling for particulate matter	OCEMS is working in NTPC Singrauli. Sampling is being done from ID Fan outlet as Chimney do not have landing plateform. Provision of sampling from Chimney in Online Continuous Emission Monitoring System (OCEMS) will be installed along with FGD installation for obtaining iso-	In-Process	December 2026 (As per FGD Timeline)	UPPCB/CPCB
		Completion of the installation of the third CAAQMS	kinetic sample. Completed	Completed		UPPCB
		Connection of CAAQMS to the CPCB/SPCB server	Completed	Completed		UPPCB/CPCB
		Submission of a time-bound action plan for 100% fly ash utilization	Action plan submitted	Completed		UPPCB
		Installation and commissioning of the FGD system in realization of the revised timeline	In progress. All three Chimneys construction has been completed. FGD work in progress. Civil: 89% completed. Mech. Work: 48% completed. Balance work in progress.	In-Process	December 2026 (As per FGD Timeline)	UPPCB/CPCB
		Treatment of the MSW generated from their residential colony	<ul> <li>01. MSW generated from residential colony being segregated &amp; collected through special motorized vehicle in a segregated manner.</li> <li>02. Biodegradable waste is being processed in bio-methanation plant (Capacity 250 kg/day). Station has also awarded the contract for constructing permanent MSW facility with segration &amp; composting of doemstic waste. Work to be started.</li> <li>03. Non-biodegradable waste is being sent to registered recyclers.</li> </ul>	In-Process	March 2024 (Extended from October 2023)	Municipal Corporation

		Undertake immediate measures to control	Regular water sprinkling is being done to control fugitive dust in the dyke area.	Completed		UPPCB
		fugitive emission in ash dyke area	In addition to the above, a truck mounted FOG cannon is under award.		January' 2024	
		Imposition and payment of environmental	Ash pond overflow is being recycled through AWRS.	Completed		UPPCB/CPCB
		compensation (EC) of Rs 27,60,000/- for	Discharge observed was due to disturbance in system for a short period which was			
		discharging ash pond overflow water into	controlled and compliance of the same was submitted.			
		the Rihand reservoir	Hon'ble Supreme Court refferd the case to Hon'ble NGT.			
			Case to be listed for re-consideration.			
	I/s NTPC Rihand Super nermal Power (Power	Connection of CAAQMS to the CPCB/SPCB server	Completed	Completed		UPPCB/CPCB
	ant)	Submission of a time-bound action plan for	Completed	Completed		UPPCB
		100% fly ash utilization		· ·		
		Installation and commissioning of the FGD	Civil and mechanical works for installation of FGD in all units are in progress in full	In-Process	December 2026	UPPCB/CPCB
		system in realization of the revised timeline	swing.		(As per FGD	
			Stage - I: 17% Civil works completed, 45% of materials received at site for		Timeline)	
			mechanical fabrication works, fabrication work in progress.			
			Stage - II & III: 73% Civil works completed; 28% mechanical works completed.			
3 <b>M</b>	I/s NTPC Limited	Submission of a time-bound action plan for	Action plan submitted	Completed		МРРСВ
Vi	indhyachal Super	100% fly ash utilization				
Th	nermal Power Plant	Explore possibilities for the construction of	Not applicable.	Select	Not applicable	MPPCB
		Ash mounds and submission of progress				
		from time to time				
		Conduct environmental damage assessment	NTPC Vindhyachal : Study completed and report submitted to MPPCB and Oversight	Completed		MPPCB
		studies with CSIR-NEERI due to fly ash	Committee. As per recommendation of NEERI study measure like Repair of OFL,			
		breach.	Removal of spilled ash from land & drains are completed.			
	l/s Anpara Thermal	Installation of flow meters to measure the	Flow meters have been installed & Commissioned.	Completed		UPPCB
	ower Plant (Power	amount of ash slurry discharged into the ash				
Pla	ant)	pond and the amount of water recovered				
		and recycled				
		Entrapment of wastewater discharge	Installation of ETP of 30 MLD capacity for Anpara A & B is in progress and is likely to	In-Process	October 2023	UPPCB
		containing ash into the Rihand reservoir	be completed by Oct-2023. Entrapment of waste water discharge is included in the		(Extended from	
		through the drain at power house area	scope of ETP contract.		July 2023)	
		Submission of explanation for not achieving	Anpara A & B are more than 25 years old and there was no provision of ETP & STP.	In-Process	October 2023	UPPCB
		ZLD in ETP & STP	STP has been installed, and Installation of ETP for Units A & B is in progress and will		(Extended from	
			be completed by Oct-2023.		July 2023)	
		Submission of a time-bound action plan for	STP has been installed. Installation of ETP for Units A & B is in progress and will be	In-Process	October 2023	UPPCB
		achieving ZLD	completed by Oct-2023.		(Extended from	
					July 2023)	

			of Rihand reservoir before 26th July, 2023. The ash removed from Rihand reservoir	In-Process		UPPCB
		manner	has been filled in low lying area and stabilized with soil cover simultaneously. OC's Comments: A significant quantity of ash is still visible on the bed surface area which needs to be recovered before the rainy season.			
		Submission of time-bound action plan for 100% fly ash utilization	Action plan has been submitted.	Completed		UPPCB
		Provision to prevent the surface runoff water from the surrounding area reaching the ash dyke	Raising of the ash dyke done. There is no surface runoff water coming inside the ash dyke (except rain water of Morcha Nala).	Completed		UPPCB
		Installation and commissioning of the FGD system in realization of the revised timeline	Installation of FGD in Unit D under progress and is likely to be completed by June 2024. Due to non receipt of clearance to L1 bidder regarding award of contract to entities from border sharing countries, the bids for Unit A and B were anulled. Retendering was done and the latest bid was rejected as it was 106% higher than the estimate. Anpara A & B-TPS:- Third time e-tender is invited on 15.12.2022, part-I is to be opened.	In-Process	June 2024	UPPCB/CPCB
		Upgradation of Anpara TPP ash dyke so as to prevent discharge of water from Morcha Nala into the ash dyke.	Raising of the ash dyke done. There is no surface runoff water coming inside the ash dyke (except rain water of Morcha Nala). <u>OC's Comments</u> : The Morccha nala is meeting into the operational ash dyke that carries surface runoff from surrounding areas into the ash dyke during rainy season. The excess water from active ash dyke will reach to the Rihand reservoir through spillway No 5. It has been informed by the unit that the study for diversion of Morcha Nala has been conducted through IIT- BHU, Varanasi and LOI has been issued to M/s	In-Process		Concerned Irrigation Dept./UPPCB
		Establishment of ZLD. UPPCB to levy EC till ZLD is in place.	<i>CWPRS. Pune.</i> Anpara A & B are more than 25 years old and there was no provision of ETP & STP. STP has been installed, and Installation of ETP for Units A & B is in progress and will be completed by Oct-2023.	In-Process	October 2023 (Extended from July 2023)	UPPCB
		Imposition and payment of EC of Rs. 1,36,80,000/- for not complying the condition of ZLD for ETP & STP	Civil Appeal has been filed (4581/2022) against the order of Hon NGT in Hon. Supreme court. Hearing on IA for stay application was scheduled on 05.07.2023. Now the case has been disposed off by Hon'ble Supreme Court.	Completed	Completed	UPPCB/CPCB
5	M/s Obra Thermal Power Station (Power Plant)	Undertake action to trap the continuous flow of ash slurry from powerhouse and ash pond overflow water carrying ash into the river Renu	AWRS capacity has been increased and has been made functional for recycling of ash water. There is no ash slurry flow in river Renu.	Completed		UPPCB

Restoration of the river bed areas on which a huge deposition of ash is visible in time- bound manner	Total 58000 cum deposited Ash has been completely removed from the banks of Renu River through LOI No. 212/CMD-VI/OTPS/eT-11/AshRemoval /21-22 dated 04.08.2021 and 636/CMD-VI/OTPS/eT-08/22-23 dated 21.02.2023. Total ash removal work was completed by 31.05.2023. Desilted ash has been disposed in low lying areas in Obra Sec 2 & 3 and stabilized with soil cover. Above that Miyawaki plantation has been done.	Completed	Completed (Timeline - June 2023)	UPPCB
Treatment of the industrial effluent, untreated effluent not to be discharged into the river Renu	ETP & STP are operational. No effluent is being discharged into river Renu.	Completed		UPPCB
Installation of an effluent collection and conveyance system for ETP & STP	A dedicated sump and sump pump house for all effluent collection has been completed and functional since April-2022. ETP and STP are having effective effluent collection.	Completed		UPPCB
Connection of CAAQMS to the CPCB/SPCB server	Already connected. Data is available on CPCB/SPCB server.	Completed		UPPCB
Submission of time-bound action plan for 100% fly ash utilization	Action plan submitted.	Completed		UPPCB
Installation and commissioning of the FGD system in realization of the revised timeline	LOI for construction of FGD has been issued to M/s KC Cottrell amounting to 152.00 Crore. The firm has finalized the layout and borehole location. Agency will be deployed by 1 Feb 2024 to carry out soil investigation. Reports will be submitted by Feb 2024 and construction work will commence from mid March 2024.		December' 2024	UPPCB/CPCB
Adoption of scientific approach for treatment and disposal of MSW	Scope of segregation of dry & wet garbage has been included in the scope of work against Lol no 1996 dated 20.12.2022 and the work is being executed accordingly. Work of conversion of wet biodegradable waste into compost is in process against LOI issued on 03.04.2023 to M/s Shashank Enterprises. Work is under process. Construction of MRF (Material Recycling Facility) center by Nagar Panchayat, Obra is under progress. Procurement of machinery is under process. Work of Construction of MRF by Obra TPS is in progress against LOI issued on 03.04.2023 to M/s OM Sai Construction and will be completed by Apr 2024.	In-Process	April 2024 (Extended from June 2023)	UPPCB
Installation of flow meters for measuring amount of ash slurry discharged and water recycled through AWRS	Flow meters installed and is in operation.	Completed		UPPCB
Installation of flow meters for measurement of amount of wastewater treated through the ETP and STP	Flow meters installed and is in operation.	Completed		UPPCB
Fixing the personal responsibility of the officers seating at management level for causing environmental damage.	Responsibility of three officers of Chief Engineer level 1. Er R. P. Saxena, HOP Obra TPS, 2. Er. Deepak Kumar, HOP Obra TPS and 3. Er. Anand Kumar, CE (E&S), Lko has been fixed and disciplinary proceedings have been initiated.	Completed		
Establishment of ZLD. UPPCB to levy EC till ZLD is in place.	ETP & STP are operational.	Completed	Completed	UPPCB

		01,36,80,000/- for discharging untreated	Civil Appeal has been filed (4525/2022) against the order of Hon NGT in Hon. Supreme court. The final judgement has been issued by Hon'ble Supreme Court on date 05.07.2023 and the case has been disposed off.	Completed	Completed	UPPCB/CPCB
	M/s Anpara 'C' Lanco Anpara Power Pvt. Ltd.		As required the immediate action has been taken and the RCC Box Culvert above the ash pipeline has been constructed with adequate strength in such a manner that in future the ash pipe line can be saved.	Completed		UPPCB
		Installation of flow meters to measure the amount of ash slurry discharged into the ash	The flow meters on all three lines carrying ash slurry have already been provided since 5.12.2021 and is operational. At recovery line of the Ash Water Recovery System (AWRS) the flow meter has already been provided since year 2017.	Completed		UPPCB
		· · · · · · · · · · · · · · · · · · ·	Action plan has already been submitted.	Completed		UPPCB
		,	LANPL has already been installed the third CAAQMS.	Completed		UPPCB
		Connection of CAAQMS to the CPCB/SPCB server	The all three CAAQMS are Connected with CPCB Server.	Completed		UPPCB/CPCB
		Installation and commissioning of the FGD system in realization of the revised timeline	The tender document floated for EPC bidding purpose.	In-Process	December 2025 (As per FGD Timeline)	UPPCB/CPCB
7	M/s Renusagar Thermal Power Plant	existing ETP	Installation of 02 No. Filter Press (of modern technology sludge drying beds) has been completed. All parts of the machine are working satisfactorily. Commissioning of the Filter Press has been completed in May 2023. Filter coltes material got damaged and we have procured new Filter Clothes. It is expected to be Operational in Dec 2023.	In-Process	December 2023 (Extended from January 2023)	UPPCB/CPCB
		Relocation of the OCEMS in order to achieve the desired iso-kinetic sampling for particulate matter.	For isokinetic sampling, we have installed new analyzers for Boiler#6 to #10. Data connectivity of OCEMS with CPCB server is in process and is expected to be completed by Dec 2023. <u>OC's Comments</u> : As informed by the unit for achieving isokinetic sampling for	In-Process	December 2023 (Extended from January 2023)	UPPCB/CPCB
			monitoring particulate matter relocation of 05 OCEMS has been completed and the other 05 are yet to be done. The unit is not taking any proactive measures to complete the work in a time-bound manner.			
		Submission of time bound action plan to relocate the existing CAAQMS	Relocated the existing 01 No. CAAQMS has been completed in March 2022. This is relocated near Civil Office(Colony) Data is linked with CPCB/SPCB server.	Completed		UPPCB
			03 nos. of CAAQMS machine have been installed & commissioned at Renusagar premises at the following locations: Near Gurudwara N17/9 Near D&E Buildings.	Completed		UPPCB
			03 nos. of CAAQMS machine have been installed & commissioned at Renusagar premises at the following locations: Near Gurudwara N17/9 Near D&E Buildings. These are connected with CPCB/SPCB server.	Completed	Completed (T/L: December 2023)	UPPCB/CPCB

	0% fly ash utilization	The fly ash utilization during April 2022 to March 2023 is 122.89 %. The Fly ash utilization the period of April2023to August2023 is 110%. Ash is being disposed of regularly to cement companies, low lying areas & bricks making units etc.	Completed		UPPCB
	tem in realization of the revised timeline	For FGD installation in one unit, we have placed PO to the vendor in the month of Dec. 21. Vendor is from overseas & material receiving may take in approx. 17.5 months. Foundation construction and site readiness & civil work is in progress. Most of the Materials have been arrived. Installation is expected to be completed by April 2024.	In-Process	April' 2024	UPPCB/CPCB
	option of scientific approach for disposal MSW	MSW management is being done in-house. Segregated dry and wet waste is collected from the residence of the colony. Non-biodegradable waste is being sent to vendors and Biodegradable waste is being converted to compost for in-house utilization.	Completed		Municipal Coorporation
		<u>OC's Comments</u> : The Unit has in-house facility for disposal of MSW. Door to Door segregated Dry & Wet Waste collected by Unit. However, proper MSW facility need to established as per MSW, Rule, 2016			
the	e fugitive emissions from raw material rage and fly ash transportation areas	Adequate actions are regularly undertaken in CHP yard area to keep the fugitive emission to the minimum level. Dust Extraction & Dust Suppression System is installed at coal discharge point and conveyors. Rain guns in yard periphery used for controlling dust in coal storage area. Stacker mouths discharge are mounted with water sprinklers in all the crushers in coal handling plant area. Additional mechanical type water sprinkling systems installed along road side and are fully operational. <u>OC's Comments</u> : Very huge fugitive dust was observed in the coal storage area during the recent visit of the committee. The installed water sprinkling system is inefficient to achieve the desired result.	In-Process		UPPCB
		Ash disposed in haphazard manner has been reclaimed and area has been cleaned. Now area is neat and clean.	Completed		UPPCB
		Same as above.	Completed		UPPCB
	D is in place.	M/s Renusagar Power has already achieved Zero Liquid Status long ago it is a ZLD unit. We have complete treatment, recycling and reuse of waste water generated to ETP, STP and AWRS (Ash water Recovery System)	Completed		UPPCB
27, thro mea emi	position and payment of EC of Rs	Hon'ble Supreme Court in Civil Appeal no. 3856/2022 and Supreme Court has set aside the order.	Completed		UPPCB/CPCB

8	Aluminum Smelter: M/s	Take corrective measures to achieve the ZLD	ZLD status achieved since November 23,2021.	In-Process	-	UPPCB
	HINDALCO Industries Ltd, Renukoot, Sonbhadra		<u>OC's Comments</u> : 1) As prescribed in the consent condition issued by UPPCB, the unit was instructed to achieve ZLD for industrial effluent and reuse of domestic effluent. In no case, the unit is allowed to discharge effluent outside the premises. Similarly, the ZLD condition has also been imposed through the environmental clearance issued by MoEF&CC on 02.12.2011. 2) Though the unit has achieved ZLD for process effluent, yet to achieve ZLD for domestic effluent. The unit has installed STP for the treatment of 24 MLD sewage generated from the residential colony. However only 12 MLD sewage is been treated and partial quantity is being recycled. The unit is directly discharging some of the sewage generated from their residential colony without any treatment into the natural drain.			
		Ensure environment friendly disposal for the huge quantity of bottom ash stored in open inside the plant premises	Total of approx. 4.87 Lacs MT of stored bottom ash has been utilized for developing low-lying areas. Currently, there is no bottom ash stored inside the plant premises.	Completed	-	UPPCB
			We have installed combination of mechanized equipment for handling, segregation, treatment, and disposal of collected MSW waste. The cost of project is approx. Rs. 163.51 lacs which includes equipment cost, civil & electrical at area of 1.515 hectares which is in our plant premises. The area is developed at RCC flooring with impervious lining. Through Trommel of different sizes wastes are sepertaed into dry and wet categories. Dry waste is being sent to approved recyclers/venodrs and wet waste is converted into compost.	Completed	Completed (Timeline - March 2023)	Municipal Coorporation
		Undertake corrective measures to control the fugitive emission effectively	Dust Extraction & Dust Suppression System is installed at coal discharge point and conveyors. Rain guns in yard periphery used for controlling dust in coal storage area. Stacker mouths discharge are mounted with water sprinklers in all the crushers in coal handling plant area. <u>OC's Comments</u> : Committee observed that the unit is very causal on the part of red mud Management (handling, storage, and transportation). They have still not procured/having sufficient mist gun/ fog cannons, specific water spraying system for dust suppression specially in the red mud dumping areas. Green belt (trees, shrubs, green cover) development in an around the red mud area is non-significant. It has been found that the some of the area of the red mud site is converted to garden by using ample amount of earthen soil. However, most of the red mud storage area is kept open without any dust suppression system, due to which huge airborne dust is generated during vehicular movement and during windy condition.	In-Process	-	UPPCB

	Establishment of ZLD. UPPCB to levy EC till ZLD is in place.	<ul> <li>ZLD for plant has been established and sustaining since November 23, 2021. A copy of communication to this effect given to RO, UPPCB vide dated 23.11.2021.</li> <li><u>OC's Comments</u> : Though the unit has achieved ZLD for process effluent, yet to achieve ZLD for domestic effluent.</li> <li>ZLD for plant has been established and sustaining since November 23, 2021. A copy</li> </ul>		Completed	UPPCB
	Imposition of and payment EC of Rs. 1,36,80,000/- for not achieving the prescribed ZLD condition and discharging untreated sewage into the environment (Responsibility: CPCB/SPCB)	of communication to this effect given to RO, UPPCB vide dated 23.11.2021. A copy of communication to this effect given to RO, UPPCB vide dated 23.11.2021. Civil appeal has filed (4525/2022) agianst the order of Hon'ble NGT in Hon'ble Supreme Court.Hearing on IA for stay appliaction is scheduled on January 17,2023. Hon'ble Supreme Court vide order NO. 3856/2022 dated July 05,2023 has disposed of the afforsiad appeal.	Completed	Completed	UPPCB/CPCB
M/s Northern Coalfields Limited (NCL) (NCL Bina Project, Bina, Sonbhadra)	Submission of time bound action plan for controlling the fire in the coal stock yard	<ul> <li>At present, there is no fire in coal stock yard at Bina project. However, to meet the above exigency following measures are there at the Bina project:-</li> <li>1. A new fire tender has been commissioned at Bina project as additional firefighting equipment.</li> <li>2. There is a specific team (properly trained) working under Fire Fighting Officer (FFO- Bina) to tackle fire hazard in Bina mine.</li> <li>3. Fire hydrant pipeline is provided near abandoned coal stock yard covering the periphery of coal stock yard.</li> <li>4. Truck mounted mist spraying guns along with mobile sprinkler (70 KL and 28 KL) are provided to control fire hazards.</li> <li>5. In addition to this, 1 no. of fixed fog canon along with pipeline and pumping arrangement has been provided near coal stock yard no.2 for control of fire.</li> </ul>	Completed		UPPCB
	Explore the possibility to monitor the status of fugitive emissions through the existing CCTV network provided for monitoring of production activities	A log book is being kept in CCTV Control Room at GM Office, Bina Project, where, record is being maintained where fugitive emissions are visible in CCTV cameras and corrective action taken on the report.	Completed		UPPCB
	Strengthening of the vigilance mechanism to identify the default transporters and take stringent action against them	Compliance of fully tarapualin covered trucks is being ensured by at Bina Project. Random inspections are being carried out to report default transporters. Further stringent action will be taken against any default transporter. 1). It is ensured that trucks exiting Bina Mine are fully covered with tarpaulin sheets only. Strict action will be taken against those who are found not using tarpaulin sheets for covering the trucks. 2). For fugitive emissions along the public road (Auri Mode-Shakti Nagar), the following measures are taken by Bina Project management: i) 1 no. of road sweeping machine is working at Bina Project for mechanized sweeping. ii). Apart from mechanized sweeping, manual sweeping of the public roads is being done on daily basis. iii) 2 no. of truck mounted mist spray guns are working in Bina Project for further reduction in the fugitive dust emission.	In-Process	Regular activity	UPPCB

		Effective tyre washing facility for transport vehicles	Construction work of tyre washing operational.	facility has been completed and it is now	Completed	Completed (Timeline - March 2023)	UPPCB
		Treatment and disposal of MSW generated in the residential colony	LOA issued for the work "Developm segregation/ composting yard and p	ASW generated in residential colony is ensured. nent of dust dumping/waste collection, providing dust bin in colony at Bina project" vide 9/07/2022 to M/s Artana Waste Management	Completed	Completed	Municipal Coorporation
		compliance with the provision of the Notification of 2009 regarding utilization of 25% fly ash along with Over Burden (OB) for back-filling the abandoned mine.	to NTPC-Vindhyachal (VSTPP). MoU on 3rd Jan, 2019. Approx. 30 to 40 Million tons of fly The last Six year overburden and co follows: S. No. Year Coal Production(M Stripping ratio 1. 2022-23 10.5 5.01 2. 2021-22 9.00 4.93 3. 2020-21 8.41 4.32 4. 2019-20 7.50 5.12 5. 2018-19 7.50 3.96 6. 2017-18 7.50 3.45 As it is evident from the above table	44.37         .3       36.35         00       38.42         00       29.73	In-Process	December 2023	UPPCB/CPCB
		Take corrective measures so that the site of CAAQMS is open from all directions	This being complied. Trees within the optimize hindrance at the site.	he close vicinity of CAAQMS have been trimmed	Completed		UPPCB/CPCB
10	M/s Northern Coalfields	Regular operations of ETP	Continous operation of ETP is ensu	red.	Completed		UPPCB

Limited (NCL) (NCL		Treated Effluent from ETP is effectively being used in Water sprinkling, Fire fighting	In-Process	March 2024	UPPCB
udhichuwa Project, onbhadra)	zero discharge	and wahsing of HEMM and zero discharge is maintained. As per suggestion of OC, proposal for study of maintenance and upgradation of Existing ETP has been moved. Construction of Two no. of Bunds in Ballia Nallah to stop any discharge in Balia Nallah would be completed by March 2024. Project will try to expediate its progress.		(for bunds)	
		<u>OC's Comments</u> : At the time of inspection existing ETP was operational, however team suggested to upgrade the Existing ETP w.r.t. Oil & grease tank & sludge drving beds.			
	Ensure that no treated/untreated effluent will be discharged into the Balia Nalla which finally meets the Rihand reservoir	<ul> <li>Arrangements have been made to stop discharge of untreated water from mine into Ballia nallah except rainwater &amp; surface water. Sumps have been provided to stop the discharge of water and cleaning of sumps done on yearly contract basis for controlling water seepage. Treated water from existing 30 MLD ETP is being reused for water sprinkling for dust suppression in mines to maximum extent possible for ensuring zero discharge.</li> <li>Work proposed : <ol> <li>Proposal for study of maintenance and upgradation of Existing ETP has been moved.</li> <li>As per OC's Comments, Construction of Two no. of Bunds in Ballia Nallah to stop discharge in Balia Nallah would be completed by March 2024. Project will try to expediate its progress.</li> </ol> </li> <li>OC's Comments : Previously, rain water was flowing through entire slope of the dump. Now, HDPE pipes provided at dumps next to ETP to prevent siltation near ETP and in Ballia Nallah. Two no. of Bunds are under Construction in Ballia Nallah</li> </ul>	In-Process	March 2024 (for bunds)	UPPCB
	Explore the possibility to monitor the status	to minimize the discharge in Balia Nallah. The target date was given for March 2024. However, the progress is slow CCTV network has been provided for monitoring of production activities in the	Completed		UPPCB
	of fugitive emissions through the existing CCTV network provided for monitoring of production activities	Project. CCTV network is utilized for monitoring of fugitive emissions. In case of appearance of fugitive emissions on CCTV, immediate action is taken.			
	Strengthen the vigilance mechanism to identify the default transporters and take stringent action against them	Coal transportation through road despatch is allowed only if trucks are covered with tarpaulin. CCTV has been installed at the exit check post. Security Guards at the check post has also been posted at exit point to ensure the strict compliance. As per OC's Comments, only truck with tarpaulin cover are being allowed to exit mine barrier for road transportation. trucks covered with thin LDPE sheets/ green net are now not being allowed.Dispatch incharge has issued a letter in this regard.	In-Process	Regular activity	UPPCB
	Effective tire washing facility for transport vehicles	Proposal of tyre washing facility at Dudhichua Project is in final stages of approval. Expected to be completed by March 2024. Delay is due to financial sactions regarding the moved proposal.	In-Process	March 2024 (Extended from May 2023)	UPPCB

		Treatment and disposal of MSW generated in the residential colony	Residential colony of Dudhichua lies in Singrauli Municipal limits of MP state. Door to Door collection of waste is being done and waste thus collected is seggregated as Dry and Wet waste. Wet waste is converted to compost and Dry waste is handled by Singrauli Municipal Corporation.	Completed		Municipal Coorporation
		25% fly ash along with Over Burden (OB) for back-filling the abandoned mine	<ol> <li>There is only one abandoned mine in NCL namely Gorbi OC where three voids are available. Out of three voids, NCL has already offered one void to NTPC-VSTPS and one for UPRVUNL for fly-ash filling through MoU signed on 03.01.2019. Approx. 30 to 40 million tons of fly ash will be accommodated into this mine void. Thereafter remaining one void may also be made available for fly ash filling.</li> <li>Correspondence has also been done to DGMS to get instructions and permission for disposal of fly ash.</li> <li>Work Order to CIMFR for "Feasibility study in utilizing fly ash in the running Nigahi mine of NCL in view of the recent Fly Ash Notification dated 31st December, 2021 through CSIR CIMFR, Dhanbad". , given on 10.01.2023., which will include Field Trial , which may pave way for dumping of fly ash in mines of NCL</li> <li>As per the minutes dated 18-8-22 of the first meeting of the committee constituted under the Chairmanship of Chairman CPCB for identification of the mine for backfilling of mine voids with ash or mixing of ash with OB dump, a team of experts of CMPDI, CIMFR and representatives of CIL and SCCL shall examine the findings of studies already carried out for disposal of ash in operational coal mines by mixing with OB dump and give suggestions to facilitate ash disposal in operational mines and any studies that needs to be carried out for this purpose. Action plan will be submitted on the basis of recommendations of above mentioned study.</li> </ol>		March'2024 (Extended from December 2023)	UPPCB/CPCB
		Imposition and payment of EC of Rs. 1,36,80,000/- for constantly discharging untreated effluent into the Balia Nalla.	Period (01.08.2020 to 31.10.2021) for which fine has been imposed includes monsoon and other seasons. Water cannot be held in the mines during rains including monsoon and non-monsoon seasons concerning safety of men and machinery. Moreover sudden make of water due to groundwater insurge is beyond control. This imposition of EC is on account untreated effluent into Ballia nalla. However water is being pumped to ETP and after due treatment is utilised for dust suppression, fire fighting and washing of HEMMs. Hon'ble Supreme Court in Civil Appeal no. 3856/2022 and Supreme Court has set aside the order.	Completed		UPPCB/CPCB
11	M/s Northern Coalfields Limited (NCL) (NCL Kakri Project, Sonbhadra)	Ensure that no treated or untreated effluent will be discharged into the Rihand reservoir through the drain	CHP, Dumper, Doser, Dust Suppression etc). Excess is being dissipated to sedimentation pond in mine area.		Completed (Timeline - May 2023)	ИРРСВ
		Entrapment of seepage in the drain at mine water collection sump	Seepage has been arrested in the drain at mine water collection sump.	Completed		UPPCB

Strengthening of the vigilance mechan to identify the default transporters and stringent action against them		In-Process	Regular activity	UPPCB
Explore the possibility to monitor the so of fugitive emissions through the exist CCTV network provided for monitoring production activities.	ing fortnightly, and the report of the same is being communicated to UPPCB quarterly. CCTV have been installed at strategic points in mine and monitoring is being done through them, however monitoring of fugitive emissions throughout the mines through CCTV is not possible.			UPPCB
Effective tyre washing facility for trans vehicles	port Proposal of tyre washing facility at Kakri Project is under process. Proposal sent for administrative approval.	In-Process	Sep 2024 (Extended from May 2023)	UPPCB
Treatment and disposal of MSW gener in the residential colony	Tender for treatment and disposal of MSW generated by Kakri Colony has been awarded to M/s Artana Waste Management Solutions, Vadodra. The work has been commenced from 05.08.2022.	Completed		Municipal Coorporation
Submission of time-bound action plan compliance with theprovision of the Notification of 2009 regarding utilization 25% fly ash along with Over Burden (O back-filling the abandoned mine.	<ul> <li>For utilization of fly ash, NCL had provided one pit of abandoned/closed Gorbi Mine to NTPC-Vindhyachal (VSTPP). MoU between NCL and NTPC-VSTPS has been done on 3rd Jan, 2019. Approx. 30 to 40 Million tons of fly ash will be accommodated in to this mine void.</li> <li>Further, Kakri mine operates at a high stripping ratio of 2 and above (ratio of volume of waste rock/OB to be removed per ton of coal). There are following constraints in fly ash filling in operating mine:</li> <li>1. Kakri mine is working with only internal dumping of the overburden. The externa dump has already achieved their capacity as per maximum permissible height and have been biologically reclaimed.</li> <li>2. Mine is working with HEMM and there is high traffic density in the mine includin, dump area.</li> <li>3. In this regard, a study has been done for NCL Bina mine through an Institute of National repute viz. IIT(BHU). As per results of the technical study: "It is technically not feasible to dump the fly ash in Mine dump due to geo mining conditions, high stripping ratio, and huge rate of OB removal and instability of dump during rainy season in present condition." The same conditions implies on Kakri OCP.</li> <li>Further, field study at NCL in one mine related to mine Backfilling through Fly Ash and its stability analysis is in progress. Tentative schedule of completion is by Marcl 2024. Action plan will be submitted on the basis of recommendations of above mentioned study.</li> </ul>	I g	Mar 2024 (Extended from Dec 2023)	UPPCB/CPCB
Open the site of CAAQMS from all the direction	Trees in the close vicinity of CAAQMS, which were pointed out by the NGT Oversight committee in their last visit, have been trimmed to minimize hindrance for horizontal movement of wind.	Completed		UPPCB/CPCB

		Imposition and payment of EC of Rs. 27,60,000/- for discharging untreated/treated effluent into the Rihand Reservoir	With reference to above subject, an EC of ₹ 27,60,000/- has been imposed on Kakri Project NCL for 'Discharging of untreated/ treated water in the Rihand Reservoir'. Kakri Project put forward following points against the EC levied on the project for the above mentioned reason: - 1. In November 2021, at the time of the visit of NGT Oversight Committee, no treated or untreated water was being discharged by Kakri Project to Rihand Reservoir. Kakri Project would further reiterate the fact that except monsoon the treated water from ETP is being reused by the Project for washing and dust suppression; any surplus water from ETP is being sent to Siltation pond near mine barrier and other low lying areas near mine and does not reach Rihand Reservoir, the same has already been inspected by NGT Oversight Committee on their previous visits. 2. Further, neither detailed violation was communicated or any clarification sought from the Project by the NGT Oversight Committee/SPCB on the above mentioned transgression for which EC of ₹ 27,60,000/- has been fined. Hon'ble Supreme Court in Civil Appeal no. 3856/2022 and Supreme Court has set aside the order.		UPPCB/CPCB
12	M/s Northern Coalfields	Continuous operations of the ETP	Continuous operation of ETP is being ensured.	Completed	UPPCB
		Ensure that no treated/untreated effluent	Additional provision for feeding raw water into ETP has been provided to ensure	Completed	UPPCB
	Project, Sonbhadra)	will be discharged in to the environment	that untreated water reaches ETP for treatment. Currently no treated / untreated water is being discharged outside mine premises. Also, Two new Siltation ponds have been created to further arrest silt from surface run off flowing outside. <i>OC's Comments: One by-pass arrangement was found through the mining area, which is carrying black colour effluent into the Rihand reservoir. It is informed that the said drain is mainly carrying the reject of water treatment plant installed for the purpose of supplying drinking water to the various NCL mines. However, during travelling, it is carrying the coal dust from the area and gets polluted.</i>		
		Regular operation of the water spraying system for effective control of fugitive dust emissions	<ul> <li>Multi approach water sprinkling is in place at Khadia Project:-</li> <li>Water sprinkling on haul roads is being done through departmental and contractual water tankers.</li> <li>Fixed water sprinklers have been installed near coal yard.</li> <li>Regular sprinkling is being ensured in CHP at all transfer points for control of dust emissions.</li> <li>Four Fixed Fog cannon has been installed near coal yards.</li> <li>Two nos. of truck mounted fog cannon system (one departmental and one hired) are operational.</li> </ul>	Completed	UPPCB

ic	tringent action against them	of the mine an One register h and to take ac against the de With regard to	d no truck is b as also been p tion against th faulter trucks, o use of tarpau e cola transpo	peing allowed to go out w ut at the Exit Gates for do e security personnel mar if any. uline cover of 400 GSM o orters and same has also l	TV cameras on the exit gates vithout tarpaulin covering. ocumenting any such violation nning the exit gates as well as r more, instructions have been been incorporated in the	In-Process	Regular activity	UPPCB
		purpose of ins 03 times. In fir only a single b hence, khadia	tallation of tyr st 02 tenders, idder was qua project had to	e washing facility, Khadia no bider was technically lified but had been banne	endering process. For the a Project has floated tenders qualified and the third bid, ed by M/s GSRTC, Gujrat and nstallation of trye washing	In-Process	September 2024 (Extended from December 2023)	UPPCB
	roper treatment and disposal of MSW enerated in the residential colony	MSW site has Management	-	ed and wastes are being o	disposed as per Solid Waste	Completed	Completed (Timeline - July 2023)	Municipal Coorporation
Ci N 2	5% fly ash along with Over Burden (OB) for ack-filling the abandoned mine	Mine to NTPC done on 3rd Ja accommodate between NCL a abondoned mi With respect	-Vindhyachal ( in, 2019. Appidin to this minand Anpara Thine of Gorbi. to Khadia Opeure of NCL Khar Coal Pro- con m3) 23 15.0 21 14.0 20 13.1 19 11.4 18 8.80	(VSTPP). MoU between N rox. 30 to 40 Million tons ne void. Apart from this, i eermal Power Station for ncast Project, The last Se adia Project are as follows oduction(In MnTonne) Stripping ratio 20 20 20 20 20 20 20 20	an MoU has also been signed filling of fly ash in Pit-3 of even year overburden and coal	In-Process	March 2024 (Extended from December 2023)	UPPCB/CPCB

		Ensure that the site of CAAQMS is open from all the direction	It is being ensured that CAAQMS is free from obstruction in its surroundings.	Completed		UPPCB
		Imposition and payment of EC of Rs. 27,60,000/- for discharging untreated/treated effluent into the Rihand Reservoir	The fine of Rs 27,60,000 was recommended in the order dated 18.01.2022 in the O.A. no of 164/2018. However the same order was considered in Hon'ble Supreme Court in Civil Appeal no. 3856/2022 and Supreme Court has set aside the order (Copy of the order is enclosed herewith).	Completed	Completed	UPPCB/CPCB
13	Limited (NCL) (NCL Krishna Shila Project)	Explore the possibility to monitor the status of fugitive emissions through the existing CCTV network provided for monitoring of production activities	At present 71 nos. CCTVs have been installed at different points in the mine Monitoring of fugitive emissions and other environment & safety related aspects have been already being done regularly from field and GM office.	Completed	-	UPPCB
		Strengthening of the vigilance mechanism to identify the default transporters and take stringent action against them	The Transportation agencies have been instructed time to time for steps to avoid spillage of coal during transportation on public roads. Strict action are being taken against the uncovered trucks if found. The despatch of coal from Krishnashila project through road mode is very less. Further It is is being ensured that trucks exiting Krishnashila Mine are fully covered with tarpaulin sheets only. Strict action is taken against the those who are not found using tarpaulin for covering of trucks. Construction of Tyre washing facility has been completed jointly for Bina & Krishnashila projects. Domestic roading sweeping machine is also being used for mecahnised sweeping of road.	In-Process	Regular activity	UPPCB
		Effective tyre washing facility for transport vehicles	Construction of Tyre washing facility has been completed jointly for Bina & Krishnashila projects.	Completed	Completed (Timeline - March 2023)	UPPCB
		Proper treatment and disposal of MSW generated in their residential colony	For the management of solid waste for Krishnashila B, C & D type quarters in Bina Colony, door to door collection, segregation and disposal of solid waste is already being done. A separate composting facility has been developed for disposal of organic solid waste.	Completed		Municipal Coorporation

Submission of the tim	ne-bound action plan	For utilization of fly ash, NCL had provided one pit of abandoned/closed Gorbi Mine	In-Process	March 2024	UPPCB/CPCB
for compliance with t	the provision of the	to NTPC-Vindhyachal (VSTPP). MoU between NCL and NTPC-VSTPS has been done		(Extended from	
Notification of 2009 r	regarding utilization of	on 3rd Jan, 2019. Approx. 30 to 40 Million tons of fly ash will be accommodated in		December 2023)	
25% fly ash along wit	h Over Burden (OB) for	to this mine void.			
back-filling the aband	doned mine	Further mine operates at a high stripping ratio of 3 and above (ratio of volume of			
		waste rock/OB to be removed per ton of coal). There are following constraints in fly			
		ash filling in operating mines:			
		1. Krishnashila mine is working with only internal dumping of the overburden. The			
		external dump has already achieved their capacity as per maximum permissible			
		height granted by MoEF&CC and have been biologically reclaimed.			
		<ol><li>Mine is working with HEMM and there is high traffic density in the mines</li></ol>			
		including dump area.			
		<ol><li>The Krishnashila OCP has limited life and requires additional space to</li></ol>			
		accommodate OB of more than 100 MCum as per PR/Mining Plan. 4. In this regard,			
		a study has been done for NCL Bina mine through an Institute of National repute			
		viz. IIT(BHU). As per results of the technical study: "It is technically not feasible to			
		dump the fly ash in Mine dump due to geo mining conditions, high stripping ratio,			
		and huge rate of OB removal and instability of dump during rainy season in present			
		condition." The same conditions implies on Krishnashila OCP.			
		Further field study at NCL in one mine related to mine Backfilling through Fly Ash			
		and its stability analysis is under approval stage. Tentative schedule of completion is			
		by March 2024. Action plan will be submitted on the basis of recommendations of			
		above mentioned study.			

14	M/s Grasim Industries Limited Chemical Division, Renukoot, Sonbhadra	Submission of the clarification regarding the discharge of chemically contaminated effluent into the drain	<ul> <li>Non-Justifiable Allegation</li> <li>We would like to humbly submit that the unit is not discharging any effluent outside their premises as the unit is ZLD.</li> <li>It is pertinent to mention that Industry has already installed ETP, RO, MEE and STP to treat effluent as well as sewage and achieved Zero Liquid Discharge since 2017.</li> <li>Adoption of ZLD means comprehensive management of wastewater, through reduced use, efficient recycling and treatment to ensure Zero Liquid Discharge.</li> <li>Intimation to the Board about installation and commissioning of Zero Liquid Discharge system is done vide our letter No. GIL/ENV/17-18/204 dated 17.11.2017.</li> <li>Unit being committed ZLD Unit, is not at all discharging any effluent outside the premises since inception of its ZLD systems. Mere assumption and suspicion of underground pipeline is just surprising and not at all true. The alleged discharge seen in remote area is not at all attributable to our Unit as there are scores of other units which may be sources of effluent, like Railways, vehicle repairing workshops etc. in and around.</li> <li>We are committed for the operationalization of state of the art effective environment management systems at our Unit.</li> <li>A total cost of about Rs 15 Crores has been incurred by the unit for continual improvement is ZLD systems. We assure to extend our full support during the PCB inspection visits.</li> </ul>		UPPCB
		Ensure environment friendly disposal of all the brine sludge stored in open pit	<ul> <li>Status: Fully Complied</li> <li>Disposal of membrane cell plant brine sludge, was started since</li> <li>December'2019 to authorized TSDF at Kanpur, M/s Re-Sustainability Limited,</li> <li>[formerly known as Ramky Enviro Engineers Ltd] &amp; M/s Bharath Oil &amp; Waste</li> <li>Management Ltd.</li> <li>The disposal process of legacy brine sludge has been completed as on date 31-07-2022. Intimation of this has been given by the Grasim-Renukoot Unit vide letter</li> <li>dated 01-08-2022 to the Regional Officer &amp; Member Secretary, U.P.P.C.B.</li> <li>The brine sludge generated on daily basis shall be stored in intermittent</li> <li>storage site, developed as per CPCB Guidelines and regularly disposed through</li> <li>TSDF-Kanpur, under contract agreement.</li> <li>At present no legacy brine sludge is stored inside the plant premises.</li> </ul>	Completed	UPPCB

Completion of the remediation activities in	Status: Fully Complied	Completed	UPPCB
the time bound manner of the area whereir	Process of reclamation has already been successfully completed.		
the ash has been dumped	• The total land area of Grasim Industries Limited-Chemical Division-Renukoot		
	is 325 acres. Out of this 62% of the area has been developed as Green Belt which is		
	just double the green belt development target of National Forest Policy.		
	• In compliance to the direction given by Member Secretary-UPPCB, vide letter		
	GOOO691/Miyawaki/2021 dated 22.09.2021, Grasim Unit has completed Miyawaki		
	Plantation at its Fly Ash Reclamation site. Successful reclamation has also been		
	affirmed by the authorities.		
	• The said afforestation covers about 5000 Sq. Mt. area with 15000 trees		
	planted, apart from this additionally 3050 trees have also been planted to attain		
	100% sustainability.		
	Intimation to this affect has already been submitted to the PCB authorities		
	vide letter dated 01.08.2022. A copy of intimation letter is attached herewith as		
	Annexure-3		
	• At present Unit is having 100% disposal of flyash being generated through its		
	CPP. A copy of flyash inventory & Annual flyash Compliance Report of the Unit		
	submitted to MoEFC&CC, CPCB & UPPCB.		
	In aforesaid circumstances, the reclamation of fly ash area having completed		
	successfully, under intimation of authorities it is evident that no further action plan		
	is required in this regard.		
	<ul> <li>Intimation through e-mail dated 14.11.2022 along with and Hard Copy, has</li> </ul>		
	been sent to MoEFC&CC, Hazardous Substances Management Division, New Delhi.		
	, , , , , , , , , , , , , , , , , , , ,		

Preparation and execution of an action plan	Matter sub-judiced before Hon'ble Apex Court	In-Process	UPPCB
to shift the mercury bearing brine sludge	• It is humbly submitted that shifting of capped mercury brine sludge matter is		
and the muck contaminated with	sub-judice before the Hon'ble Supreme Court, in which interalia Central & State		
chlorinated chemicals from the factory	Pollution Control Board authorities are also party. The study conducted by NEERI		
premises to the TSDF in consultation with	for the capped SLF is already submitted to all concerned regulators. As per NEERI		
the UPPCB	report:		
	"It was observed that mercury was not leaching from the SLF and also not		
	contaminating the groundwater. In view of this, it was not recommended to		
	decommission the stabilized SLF for shifting the mercury sludge. The report		
	recommended the construction of storm water drainage (leachate collection		
	system) around the SLF and treating this in existing ETP. It was observed that GRCD		
	has installed leachate collection system and the leachate is being treated in the		
	existing ETP. The summarise, study has revealed that the mercury sludge in SLF is		
	stabilized and there is no considerable evidence for leaching of mercury in SLF.		
	Geologically, the study area is comprised of Precambrian rocks, which is very hard		
	rock and has no permeability"		
	Hon'ble Supreme Court took into consideration the NEERI Report, where it		
	has opined that from the point of view of environmental perspective, it was not		
	recommended to open the Secure Landfill Resource [SLR] and thus, shifting of		
	Mercury bearing brine sludge would cause environmental hazards and no method		
	has even been informed to the appellant besides queries raised the concerned		
	authorities.		
	• On the basis of the Report of NEERI, Hon'ble Supreme Court has pleased to		
	grant a stay against the NGT proceeding vide order dated 04.11.2019.		
	• In the interest of justice, it would be advisable to keep this issue in abeyance,		
	Attl terre to alternate of alternative the stand the Americ Count		

15	M/s Birla Carbon India	Strict vigilance on the area from where the	1. The company has installed ETP & STP for treating effluent & sewage respectively	Completed	UPPCB
	Pvt. Ltd., Renukoot,	effluent was earlier reaching outside the	and achieved Zero liquid discharge since 2011.		
	Pvt. Ltd., Renukoot, Sonbhadra	effluent was earlier reaching outside the plant boundary	<ul> <li>and achieved Zero liquid discharge since 2011.</li> <li>2. Birla Carbon is a global company and follow Global standards on Safety, Health &amp; Environment. Our Global standards provides holistic approach on management of water through reduced use, effective treatment and efficient recycling to ensure Zero Liquid Discharge.</li> <li>3. Birla Carbon functions responsibly towards environment and don't discharge any effluent outside the plant boundary wall.</li> <li>4. The company has installed 360 degree camera, in the year 2018, for continuous monitoring of ZLD system. The online feed of the camera reaches to CPCB round the clock.</li> <li>5. The company has constructed dike wall for arresting any possible leakages around ZLD area in February 2021.</li> <li>6. Additionally, the company has constructed pit to collect and recycle the water used for floor washing of ZLD area in February 2021.</li> <li>7. The area between plant boundary wall and ZLD is being cleaned regularly.</li> <li>8. A path way has been constructed nearby boundary wall for ensuring Zero discharge in June 2021.</li> <li>8. A Camera has also been installed in the area between plant boundary wall and ZLD for continuous monitoring of the area for Zero Discharge in June, 2021.</li> </ul>		
16	M.P. Power Generating Co. Ltd. (MPPGCL) Mahan Energen Ltd.	To check the strength of the bunds created around the dykes/low lying areas quarterly and one time especially before the on-set of the monsoon through expert agencies of repute and to submit Action Taken Reports to regional offices of MPPCB, CPCB & MoEF&CC periodically. To obtain prior permission from MPPCB before any disposal of fly ash / bottom ash in the low lying areas and ensure disposal as per the CPCB guideline. Submission of time-bound action plan for	Ash dykes are proper & scientifically designed and present status is good for technical soundness, structural strength, stability, safety and isstructurally sustainable and safe for adequacy for handling of fly ash generated from TPSs. Suggested to carry out regular maintenance of the slope due to erosion during monsoon season. Advised to monitor the performance of the dyke using geotechnical instrumentation. Report submitted to MPPCB vide no. 2235 dated: 10/12/2019 to comply with NGT order dated 18/01/2022. The condition is regularly prescribed by MPPCB during the renewal of Consent to Operate (CTO) every year and same is being complied by the thermal power stations of MPPGCL as and when required.	Completed Completed	MPPCB MPPCB MPPCB
17	Mahan Energen Ltd. Singrauli, MP.	Submission of time-bound action plan for 100% fly ash utilization		Completed	мррсв
	Jingiduli, IVIF.	10070 119 8311 01112811011	Cement Plant, Brick Plant and filling of low lying area		

18	M/s Sasan Mega Power Ltd.	Ash cleaning work from Goiwahai drain within 1 month .	The site restoration job including cleaning of Goiwahai Drain is already completed and a letter informing about the compliance to the directives was submitted to MPPCB on 31st Oct, 2020 and NGT Committee on 28th Dec 2020. Further additional preventive measures were taken during the raising of our existing ash dyke like provision of earthen bunds to prevent any ash escape, proper compaction of ash and soil, immediate soil covering of area completed with ash hearting, construction of slope and toe drains to channelize the rain water, providing rock toe at the base and grass turfing at the slope to ensure no fly ash escape into the nallah. Further. the detailed report along with photographs and complete videography of Goiwahia, Thargatta and Garra drain has been submiited to MPPCB vide letter No. SPL/ EMG/ 2023-24/07 dated 10.05.2023 and e-mailed on 11.05.2023 and also updated to MPPCB time to time as directions received. <b>OC's Comments:</b> <i>The committee has visited the Gawaiyya &amp; Thargatta nala, and</i> <i>observed that the banks and the drain bed were clean. The ash deposition along</i> <i>the nala is diminishing naturally with the passage of time. The unit need to take</i> <i>action on cleaning of the ash at the confluence point of drain to river.</i>	In-Process		Concerned Irrigation Dept. and SPCB
		Take control measures to prevent fly ash discharge to Goiwahai drain and finally the Rihand River	Same as above.	Completed	Completed	Concerned Irrigation Dept. and SPCB
		Grievance redressal of affected people near Tola Badi village, Harrahawa village and other affected villages along the Goiwahai drain	All the earlier grievances are settled as per the recommendations of District administration and also additional compensation were paid. Further, grievance redressal mechanism is established to address the complaints and grievances of stake holders through coordination with district administration (Tehsildar/SDM) and village panchayat. Company's CSR team regularly visits the surrounding villages and genuine	Completed		МРРСВ
		Obtain prior permission from MPPCB before any disposal of ash in the low lying areas	grievances, if any, are timely resolved. No disposal is being done in the low lying area. However, necessary permission from the SPCB shall be obtained in case the disposal is done in low lying area.	Completed		МРРСВ
		Submission of time-bound action plan for 100% fly ash utilization	Action plan submitted	Completed		МРРСВ
		Stability study of bunds created around the ash dykes/low lying areas periodically	Sasan Power Ltd. has appointed IIT-BHU to carry out ash dyke stability study. The detailed study has been conducted in July, 2020 and the report was submitted to your good office vide our letter dated 16.09.2020. In addition to this, the stability and strength of the ash dyke is being monitored annually by the IIT-BHU before the monsoon period. Pre Monsoon Inspection for stability and strength of the Ash Dyke for FY 22-23 and 23-24 were conducted in May, 2022 and June 2023 and the reports have already been submitted to MPPCB vide letters dated 12.07.2022 and 11.07.2023, respectively.	Completed	Completed	МРРСВ

Study by	IIT-BHU regarding the impact on	The IIT-BHU has submitted the final report on "Hydrological Study in and around	Completed		MPPCB
aquifers o	due to fly ash breach	Sasan Power Limited" and copy of the said report is already submitted to MPPCB			
		vide letter dated 22.04.2022.			
Conduct	environmental damage assessment	NEERI was engaged for the said study on 21.04.2020. They visited the site from 22 –	In-Process	15th February,	MPPCB
studies w	vith CSIR-NEERI due to fly ash	26th Dec 2020. During the		2024 (Extended	
breach		site visit NEERI carried out detailed site survey and collected the samples required		from 31.03.2023)	
		for the study.			
		As understood from NEERI, they have completed the analysis of total 89 samples			
		which were taken during the first site visit (49 of water, 32 of soil, 05 of ash and 03			
		of crops/plants). They are in the process of collating and analyzing the results of the			
		samples collected. All the above samples are analyzed for physicochemical			
		properties and heavy metal characteristics.			
		Another round of sampling was taken during last week of June 2021 and December,			
		2021 for consolidation and verification of the results obtained for samples collected			
		during their previous site visit.			
		We have received the draft report from NEERI and we are in process of review of			
		the report, expected to be submitted by 30th Sep 2023. SPL has engaged institutes			
		of repute namely NEERI, Nagpur and IIT – BHU. NEERI carried out monitoring,			
		analysis and estimated the environmental damage compensation. Further IIT – BHU			
		carried out the revalidation/ reevaluation of the assessment methodology and final			
		calculations. The final report is under review and expected to be submitted by			
		15 02 2024			