









































































































Our approach to materiality topics

Sr. No.	Topics with Boundary	Key Actions	SDGs Linkage	Capital Linkage
1.	Health and safety 	<ul style="list-style-type: none"> Safety is inculcated in the core values of NTPC Target of zero incidents by establishment of robust safety culture and policy Upgradation of operating procedures to make the work environment safer Addressal of potential safety hazards owing to diversification into new technologies and business areas NTPC Unchahar Safety Academy has been established to provide hands-on training on specific safety and emergency requirement Mandatory Periodic Occupational health check-ups for all employees and contract labourers Record Keeping of medical history of employees and their family through online centralized HMS framework “Jeevan Rekha” 		
2.	Fly-Ash utilization  	<ul style="list-style-type: none"> Implementation of Ash Policy for ash utilization in an integrated way from Ash generation to end product Dry fly ash is issued to cement industries, ash brick manufacturers, National Highway, State Highway authorities and other user industries Pond ash is given for road-construction in considerable quantity For development of ash based value products such as geopolimer roads, light weight aggregate, ash based aggregate, sand and building material etc 	  	
3. & 4	Water and effluent management  	<ul style="list-style-type: none"> Optimisation of water consumption through advanced technologies and process reengineering NTPC became signatory of CEO water mandate Implementation of “Water Policy” and “Rain Water Harvesting Policy” Implementation of “Zero Liquid Discharge (ZLD)” at all stations Ensuring good quality fresh water availability in and around plant locations through community investments and capacity building Installation of Air Cooled Condensers having potential to save 75% of water in water stressed regions Cycles of Concentration (CoC) is being increased at all stations for reducing fresh water intake 	  	 
5.	Air emissions  	<ul style="list-style-type: none"> Installation of Flue gas desulphurisation (FGD) system for SO_x control at 60+ GW capacity Combustion modifications for De-NO_x completed for 7 GW and is in progress for 14+ GW capacity Retrofitting of ESP to curb particulate emissions at all stations Continuous Emission Monitoring System (CEMS) of all stacks Ambient air quality monitoring through an online Ambient Air Quality Monitoring System (AAQMS) 	    	

Sr. No.	Topics with Boundary	Key Actions	SDGs Linkage	Capital Linkage
6.	Ethics and integrity  	<ul style="list-style-type: none"> Ethics being part of core values, all business processes are aligned to principles of ethics and integrity Policies of code of conduct, whistle blower, complaint handling and banning of business dealings in place 100% compliance with laws and regulations ensuring a transparent and corruption free work environment Display Boards at all offices exhorting any visitor not to succumb to pressure and report any case of corrupt practices directly to Chief Vigilance Officer 	 	
7.	Compliance management and contractual disputes  	<ul style="list-style-type: none"> Robust internal systems and processes in place for smooth and efficient conduct of business Our systems are designed to ensure regulatory compliances and maintain highest level of corporate governance Internal environmental audits of the stations are conducted by expert teams comprising internal and external members 26 NTPC stations are ISO14001:2015 certified and therefore periodical external audit of the environmental systems are done by the certification agencies 	 	 
8.	Operational efficiency and plant reliability 	<ul style="list-style-type: none"> Improvement of operational efficiency through process innovations and adoption of advanced technologies Adopting best operation and maintenance (O&M) practices and conducting periodic review Ensuring fuel availability, secure and consistent access of information to all enables us to increase our productivity. Increasing plant reliability through improved scheduling & maintenance, data analytics technique Improvement of current systems and providing job specific trainings to our workforce Unique voluntary program of GHG emission reduction by establishing 'Center for Power Efficiency and Environmental Protection (CenPEEP)' for CO₂ reductions through sustained efficiency improvements 	  	
9.	Fuel availability 	<ul style="list-style-type: none"> Long term fuel supply agreement with major domestic fuel suppliers Supplementary agreement has also been signed at subsidiary level under rationalisation of coal linkages Importing coal to fulfil the short term fuel requirements Strategically ventured into coal mining to ensure long term fuel security 	  	
10.	Community engagement  	<ul style="list-style-type: none"> Dedicated CSR policy in line with Companies Act, 2013 and Department of Public Enterprises (DPE) Guidelines for CSR Key community based programmes through NTPC Foundation Our focus areas include Health, Sanitation, Water and Education One of the top CSR spending conglomerate in country through expenditure of ₹ 461.96 Cr. in FY 2020-21 	     	

Sr. No.	Topics with Boundary	Key Actions	SDGs Linkage	Capital Linkage
11.	Disaster Management  	<ul style="list-style-type: none"> Periodic review and monitoring of safety and security system to identify and address new kind of possible disasters and emergencies Design upgradation of the plant structure to ensure resistance to natural calamities Location wise specific Disaster Management Plan (DMP) in place Appropriate mock drills periodically to build awareness and capabilities of our workforce 	 	
12.	Quality Management 	<ul style="list-style-type: none"> Quality Assurance in place to ensure strong performance and quality on all the operational parameters Ensure quality starting from sourcing of raw materials to the erection and commissioning till the generation of electricity Each item tfor construction is subject to rigorous tests and inspection at the appropriate stages to ensure conformity Committed adequate resources to maintain effective Quality Management System in our business operations Dedicated Corporate level Quality Assurance team and Inspection Engineers at various demanding locations and projects 	 	
13.	Customer satisfaction and loyalty 	<ul style="list-style-type: none"> Ensuring timely response to customers' changing energy needs and grievances Periodic meets of senior management with beneficiaries such as state discoms and other utilities to understand their concerns and resolve issues 	 	
14. & 21.	Climate Change impacts & De-carbonisation of power-mix 	<ul style="list-style-type: none"> Enhanced geographical and technology diversification, inherently reduces our risks to any location specific natural catastrophe Power plants and associated infrastructures are designed to withstand cyclones, heatwaves and increase in ambient temperatures Decommissioning of old thermal plants and revised target of 60 GW of RE capacity by 2032 Substantial progress towards decarbonised energy transition through 5 + GW of installed non-fossil based generation capacity 	   	 
15.	New technologies and digitalization 	<ul style="list-style-type: none"> Delivering sustainable technology solutions through applied research and providing advanced scientific services through dedicated R&D centre (NETRA) Independently developing patented technology Launched notable digital platforms for business approvals and Suppliers/Labours bill payments CPM & BI tool for data monitoring and reporting 	 	
16.	Waste Management  	<ul style="list-style-type: none"> Waste (Hazardous & Non-hazardous) generated are properly handled and disposed with approved agencies Specific guidelines and systems instituted for handling domestic waste and bio-medical waste The scrap and recyclable waste is managed through auction on MSTC e-platform Other solid waste is managed according to our waste policy & applicable govt. regulations 	  	

Sr. No.	Topics with Boundary	Key Actions	SDGs Linkage	Capital Linkage
17.	Biodiversity 	<ul style="list-style-type: none"> Implementation of Dedicated Biodiversity Conservation Policy 36+ Million trees have been planted Currently implementing 14 Wildlife and habitat restoration projects 		
18.	Profitability 	<ul style="list-style-type: none"> Strong Financial Management system in place to ensure consistent increase in profit over the years Business Diversification into coal mining, EV ecosystem, consultancy to ensure future cashflow 		
19.	Labour practice  	<ul style="list-style-type: none"> Uphold the best Global and Indian labour standards pertaining to wage determination, allocation of tasks, shifts & working hours, provision of training, incentive & reward schemes and occupational health & safety standards Dedicated Human Rights Policy in place to promote and safeguard all kind of organizational rights Operating bipartite collective bargaining forum (NTPC Bipartite Council) since 1982 Implemented CLIMS for online labour payments, skill training and building health Information profile 		
20. & 24.	Employee development, & Engagement and Employee diversity 	<ul style="list-style-type: none"> Continuously reengineering HR systems to strengthen the relationship between business growth and systematic employee development Continuous engagement activities and training programmes Systematic job rotation and career development scheme to aid Employees in their horizontal and vertical growth 		
22.	Sustainable Supply Chain 	<ul style="list-style-type: none"> Implementation of sustainable supply chain guidelines Capacity building programmes for suppliers on Environment Social and Economic fronts to create shared value Capturing ESC data of suppliers on voluntarily basis 		
23. & 26.	Land acquisitions & Indigenous peoples' rights 	<ul style="list-style-type: none"> Taking measures to improve the Socio-economic status of the Project Affected Families (PAFs) R&R (Rehabilitation and Resettlement) policy in place in line with 'The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013' (RFCT LARR Act) 		
25	Plant decommissioning 	<ul style="list-style-type: none"> Decommissioning of plants are governed by the norms of Ministry of Power (MoP) Ensuring safety and security of people and environmental impact during decommissioning 	