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#### TABLE: ENVIRONMENTAL MANAGEMENT PLAN

Project activity	Potential	Proposed mitigation	Parameter to be	Measurement	Institutional	Implementation	Applicability
/stage	impact	measure	monitored	and frequency	responsibility	schedule	
<b>Pre-construction</b>							
Location of transmission towers and transmission line alignment and design	Exposure to safety related risks	Setback of dwellings to overhead line route designed in accordance with permitted level of power frequency and the regulation of	Tower location and line alignment selection with respect to nearest dwellings	Setback distances to nearest houses - once	POWERGRID	Part of tower siting survey and detailed alignment survey and design	Transmission Line Tower Packages
Equipment specifications and design parameters	Release of chemicals and gases in receptors (air, water, land)	supervision at sites.  PCBs not used in substation transformers or other project facilities or equipment.	Transformer design	Exclusion of PCBs in transformers stated in tender specification - once	POWERGRID	Part of tender specifications for the equipment	Substation Equipment /Packages*
		Processes, equipment and systems not to use chlorofluorocarbons (CFCs), including halon, and their use, if any, in existing processes and systems	Process, equipment and system design	Exclusion of CFCs stated in tender specification – once	POWERGRID	Part of tender specifications for the equipment	

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Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement and frequency	Institutional responsibility	Implementation schedule	Applicability
Transmission line design	Exposure to electromagnetic interference	should be phased out and to be disposed of in a manner consistent with the requirements of the Government Transmission line design to comply with the limits of electromagnetic	Electromagnetic field strength for proposed line design	Phase out schedule to be prepared in case still in use – once Line design compliance with relevant standards -	POWERGRID	Part of equipment and process design  Part of detailed alignment survey and design	Transmission Line Tower Packages
Location of transmission towers and transmission line alignment and design	Impact on water bodies and land	interference from overhead power lines Consideration of tower location at where they could be located to avoid water bodies or agricultural land.	Tower location and line alignment selection (distance to water and/or agricultural land)	Consultation with local authorities and land owners - once	POWERGRID	Part of tower siting survey and detailed alignment survey and design	Transmission Line Tower Packages
Ü	Social inequities	Careful route selection to avoid existing settlements	Tower location and line alignment selection (distance to nearest dwellings or social institutions)	Consultation with local authorities and land owners - once	POWERGRID	Part of detailed tower siting and alignment survey and design	
		Minimise need to acquire agricultural land	Tower location and line alignment selection (distance to agricultural land)	Consultation with local authorities and land owners - once	POWERGRID	Part of detailed tower siting and alignment survey and design	

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Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement and frequency	Institutional responsibility	Implementation schedule	Applicability
Encroachment into	Loss of precious	Avoid encroachment	Tower location and	Consultation	POWERGRID	Part of detailed	Transmission
	ecological	by careful site and	line alignment	with local	TOWERGRID		Line Tower
precious ecological	values/ damage	alignment selection	selection (distance	authorities -		siting and	
areas	to precious	angiment selection	to nearest			alignment survey / design	Packages
				once		survey / design	
	species		designated				
			ecological protection area)				
		M::		Consultation	DOMEDONIO	Part of detailed	
		Minimise the need by	Tower location and		POWERGRID		
		using existing towers and RoW wherever	line alignment	with local		siting and	
			selection	authorities		alignment	
		possible		and design		survey/design	
				engineers -			
	D (		m 1 1 1	once	DOLLED CDID	D . (1 . !! 1	
Transmission line	Deforestation	Avoid encroachment	Tower location and	Consultation	POWERGRID	Part of detailed	Transmission
through forestland	and loss of	by careful site and	line alignment	with local		siting and	Line Tower
	biodiversity	alignment selection	selection (distance	authorities -		alignment	Packages
			to nearest protected	once		survey/design	
		Minimise the need by	or reserved forest)	Consultation			
		using existing towers,		with local			
		tall towers and RoW,		authorities			
		wherever possible		and design			
				engineers -			
				once			
		Obtain statutory	Statutory approvals	Compliance			
		clearances from the	from Government	with			
		Government		regulations –			
				once for each			
				subproject			

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Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement and frequency	Institutional responsibility	Implementation schedule	Applicability
Encroachment into	Loss of	Use existing tower	Tower location and	Consultation	POWERGRID	Part of detailed	Transmission
farmland	agricultural	footings/towers	line alignment	with local		alignment	Line Tower
	productivity	wherever possible	selection	authorities		survey and	Packages
		_		and design		design	
				engineers -			
				once			
		Avoid siting new	Tower location and	Consultation		Part of detailed	
		towers on farmland	line alignment	with local		siting and	
		wherever feasible	selection	authorities		alignment	
				and design		survey /design	
				engineers -			
				once			
		Farmers compensated	Design of	Consultation		Prior to	
		for any permanent loss	Implementation of	with affected		construction	
		of productive land	Crop Compensation	parties – once		phase	
			(based on affected	in a quarter			
			area)				
		Farmers/landowners	Design of	Consultation		Prior to	
		compensated for	Implementation of	with affected		construction	
		significant trees that	Tree compensation	parties - once		phase	
		need to be trimmed/	(estimated area to	in a quarter			
		removed along RoW.	be				
			trimmed/removed)				

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Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement and frequency	Institutional responsibility	Implementation schedule	Applicability
			Statutory approvals for tree trimming	Compliance with		Part of detailed siting and	
			/removal	regulations – once for each subproject		alignment survey / design	
Noise related	Nuisance to neighbouring properties	Substations sited and designed to ensure noise will not be a nuisance.	Noise levels	Noise levels to be specified in tender documents - once	POWERGRID	Part of detailed equipment design	Substation Packages
Interference with drainage patterns/Irrigation channels	Flooding hazards/loss of agricultural production	Appropriate siting of towers to avoid channel interference	Tower location and line alignment selection (distance to nearest flood zone)	Consultation with local authorities and design engineers -	POWERGRID	Part of detailed alignment survey and design	Transmission Line Tower Packages
Escape of polluting materials	Environmental pollution	Transformers designed with oil spill containment systems, and purpose-built oil, lubricant and fuel storage system, complete with spill cleanup equipment.	Equipment specifications with respect to potential pollutants	Tender document to mention specifications - once	POWERGRID	Part of detailed equipment design /drawings	Transformer specifications

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Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement and frequency	Institutional responsibility	Implementation schedule	Applicability
		Substations to include drainage and sewage disposal systems to avoid offsite land and water pollution.	Substation sewage design	Tender document to mention detailed specifications - once	POWERGRID	Part of detailed substation layout and design /drawings	Substation packages (civil)
Equipment submerged under flood	Contamination of receptors (land, water)	Substations constructed above the high flood level (HFL) by raising the foundation pad.	Substation design to account for HFL (elevation with respect to HFL elevation)	Base height as per flood design - once	POWERGRID	Part of detailed substation layout and design / drawings	Substation packages (civil)
Explosions/Fire	Hazards to life	Design of substations to include modern fire control systems/firewalls.  Provision of fire fighting equipment to be located close to transformers.	Substation design compliance with fire prevention and control codes	Tender document to mention detailed specifications - once	POWERGRID	Part of detailed substation layout and design /drawings	Substation packages
Construction				I		1	
Equipment layout and installation	Noise and vibrations	Construction techniques and machinery selection seeking to minimize ground disturbance.	Construction techniques and machinery	Construction techniques and machinery creating minimal ground disturbance - once at the	POWERGRID (Contractor through contract provisions)	Construction period	All packages

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Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement and frequency	Institutional responsibility	Implementation schedule	Applicability
				start of each			
				construction			
				phase			
Physical	Disturbed	Construction activities	Timing of start of	Crop	POWERGRID	Construction	All packages
construction	farming activity	on cropping land	construction	disturbance -	(Contractor	period	
		timed to avoid		Post harvest as	through		
		disturbance of field		soon as	contract		
		crops (within one		possible but	provisions)		
		month of harvest		before next			
		wherever possible).		crop - once per			
				site			
Mechanized	Noise, vibration	Construction	Construction	Complaints	POWERGRID	Construction	All packages
construction	and operator	equipment to be well	equipment -	received by	(Contractor	period	
	safety, efficient	maintained.	estimated noise	local	through		
	operation		emissions	authorities -	contract		
				every 2 weeks	provisions)		
	Noise, vibration,	Turning off plant not	Construction	Complaints	POWERGRID	Construction	
	equipment wear	in use.	equipment -	received by	(Contractor	period	
	and tear		estimated noise	local	through		
			emissions and	authorities -	contract		
			operating schedules	every 2 weeks	provisions)		
Construction of	Increase in	Existing roads and	Access roads, routes	Use of	POWERGRID	Construction	Transmission
roads for	airborne dust	tracks used for	(length and width	established	(Contractor	period	Line Tower
accessibility	particles	construction and	of new access roads	roads	through		Packages
		maintenance access to	to be constructed)	wherever	contract		
		the line wherever		possible -	provisions)		
		possible.		every 2 weeks			

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Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement and frequency	Institutional responsibility	Implementation schedule	Applicability
	Increased land requirement for temporary accessibility	New access ways restricted to a single carriageway width within the RoW.	Access width (meters)	Access restricted to single carriageway width within RoW - every 2 weeks	POWERGRID (Contractor through contract provisions)	Construction period	
Temporary blockage of utilities	Overflows, reduced discharge	Temporary placement of fill in drains/canals not permitted.	Temporary fill placement (m³)	Absence of fill in sensitive drainage areas - every 4 weeks	POWERGRID (Contractor through contract provisions)	Construction period	All Packages
Site clearance	Vegetation	Marking of vegetation to be removed prior to clearance, and strict control on clearing activities to ensure minimal clearance.	Vegetation marking and clearance control (area in m <sup>2</sup> )	Clearance strictly limited to target vegetation - every 2 weeks	POWERGRID (Contractor through contract provisions)	Construction period	All Packages
Trimming/cutting of trees within RoW	Fire hazards	Trees allowed growing up to a height within the RoW by maintaining adequate clearance between the top of tree and the conductor as per the regulations.	Species-specific tree retention as approved by statutory authorities (average and maximum tree height at maturity, in meters)	Presence of target species in RoW following vegetation clearance – once per site	POWERGRID (Contractor through contract provisions)	Construction period	Transmission Line Tower Packages

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Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement and frequency	Institutional responsibility	Implementation schedule	Applicability
	Loss of vegetation and deforestation	Trees that can survive pruning to comply should be pruned instead of cleared.	Species-specific tree retention as approved by statutory authorities	Presence of target species in RoW following vegetation clearance – once per site	POWERGRID (Contractor through contract provisions)	Construction period	Transmission Line Tower Packages
		Felled trees and other cleared or pruned vegetation to be disposed of as authorized by the statutory bodies.	Disposal of cleared vegetation as approved by the statutory authorities (area cleared in m²)	Use or intended use of vegetation as approved by the statutory authorities – once per site	POWERGRID (Contractor through contract provisions)	Construction period	
Wood/vegetation harvesting	Loss of vegetation and deforestation	Construction workers prohibited from harvesting wood in the project area during their employment, (apart from locally employed staff continuing current legal activities).	Illegal wood /vegetation harvesting (area in m², number of incidents reported)	Complaints by local people or other evidence of illegal harvesting - every 2 weeks	POWERGRID (Contractor through contract provisions)	Construction period	All Packages
Surplus earthwork/soil	Runoff to cause water pollution, solid waste disposal	Soil excavated from tower footings disposed of by placement along roadsides, or at nearby	Soil disposal locations and volume (m³)	Acceptable soil disposal sites - every 2 weeks	POWER GRID (Contractor through contract provisions)	Construction period	Transmission Line Tower Packages

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Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement and frequency	Institutional responsibility	Implementation schedule	Applicability
7	<b>F</b>	house blocks if					
		requested by					
		landowners.					
Substation	Loss of soil	Fill for the substation	Borrow area siting	Acceptable	POWERGRID	Construction	Substation
construction		foundations obtained	(area of site in m <sup>2</sup>	borrow areas	(Contractor	period	Package (Civil)
		by creating or	and estimated	that provide a	through	1	
		improving local water	volume in m³)	benefit - every	contract		
		supply ponds or	,	2 weeks	provisions)		
		drains, with the			,		
		agreement of local					
		communities.					
Substation	Water pollution	Construction activities	Seasonal start and	Timing of	POWERGRID	Construction	Substation
construction		involving significant	finish of major	major	(Contractor	period	Package (Civil)
		ground disturbance	earthworks (pH,	disturbance	through		
		(i.e. substation land	BOD/COD,	activities -	contract		
		forming) not	Suspended solids,	prior to start	provisions)		
		undertaken during the	other ?)	of			
		monsoon season.		construction			
				activities			
Site clearance	Vegetation	Tree clearances for	Ground disturbance	Amount of	POWERGRID	Construction	Substation
		easement	during vegetation	ground	(Contractor	period	Package (Civil)
		establishment to only	clearance (area, m <sup>2</sup> )	disturbance -	through		
		involve cutting trees		every 2 weeks	contract		
		off at ground level or			provisions)		
		pruning as	Statutory approvals	Statutory	POWERGRID	Construction	
		appropriate, with tree		approvals for	(Contractor	period	
		stumps and roots left		tree clearances	through		
		in place and ground		- once for each	contract		
		cover left undisturbed.		site	provisions)		

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Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement and frequency	Institutional responsibility	Implementation schedule	Applicability
Tower construction – disposal of surplus earthwork/fill	Waste disposal	Excess fill from tower foundation excavation disposed of next to roads or around houses, in agreement with the local community or landowner.	Location and amount (m³)of fill disposal	Appropriate fill disposal locations - every 2 weeks	POWERGRID (Contractor through contract provisions)	Construction period	Transmission Line Tower Packages
Storage of chemicals and materials	Contamination of receptors (land, water, air)	Fuel and other hazardous materials securely stored above high flood level.	Location of hazardous material storage; spill reports (type of material spilled, amount (kg or m³) and action taken to control and clean up spill)	Fuel storage in appropriate locations and receptacles - every 2 weeks	POWERGRID (Contractor through contract provisions)	Construction period	All Packages
Construction schedules	Noise nuisance to neighbouring properties	Construction activities only undertaken during the day and local communities informed of the construction schedule.	Timing of construction (noise emissions, [dB(a)])	Daytime construction only - every 2 weeks	POWERGRID (Contractor through contract provisions)	Construction period	All Packages
Provision of facilities for construction workers	Contamination of receptors (land, water, air)	Construction workforce facilities to include proper sanitation, water supply and waste disposal facilities.	Amenities for Workforce facilities	Presence of proper sanitation, water supply and waste disposal	POWERGRID (Contractor through contract provisions)	Construction period	All Packages

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Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement and frequency	Institutional responsibility	Implementation schedule	Applicability
				facilities - once each new facility			
Encroachment into farmland	Loss of agricultural productivity	Use existing access roads wherever possible	Usage of existing utilities	Complaints received by local people	POWERGRID (Contractor through	Construction period	All Packages
		Ensure existing irrigation facilities are maintained in working condition	Status of existing facilities	/authorities - every 2 weeks	contract provisions)		
		Protect / preserve topsoil and reinstate after construction completed	Status of facilities (earthwork in m³)				
		Repair / reinstate damaged bunds etc after construction completed	Status of facilities (earthwork in m³)				
	Social inequities	Compensation for temporary loss in agricultural production	Implementation of Crop compensation (amount paid, dates, etc.)	Consultation with affected parties – once in a quarter	POWERGRID	Prior to construction	
Uncontrolled erosion/silt runoff	Soil loss, downstream siltation;	Need for access tracks minimised, use of existing roads. Limit site clearing to work areas	Design basis and construction procedures (suspended solids in receiving waters;	Incorporating good design and construction management	POWERGRID (Contractor through contract provisions)	Construction period	All Packages

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Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement and frequency	Institutional responsibility	Implementation schedule	Applicability
		Regeneration of vegetation to stabilise works areas on completion (where applicable) Avoidance of excavation in wet season Water courses protected from siltation through use of bunds and sediment ponds	area re-vegetated in m²; amount of bunds constructed [length in meter, area in m², or volume in m³])	practices – once for each site			
Nuisance to nearby properties	Losses to neighbouring land uses/ values	Contract clauses specifying careful construction practices.	Contract clauses	Incorporating good construction management practices – once for each site	POWERGRID (Contractor through contract provisions)	Construction period	All Packages
		As much as possible existing access ways will be used.	Design basis and layout	Incorporating good design engineering practices – once for each site			

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Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement and frequency	Institutional responsibility	Implementation schedule	Applicability
/stage	Impact	Productive land will be	Reinstatement of	Consultation	responsibility	scriedure	
		reinstated following	land status (area	with affected			
		completion of	affected, m <sup>2</sup> )	parties - twice			
		construction		- immediately			
				after			
				completion of			
				construction			
				and after the			
				first harvest			
	Social inequities	Compensation will be	Implementation of	Consultation	POWERGRID	Prior to	
		paid for loss of	Tree/Crop	with affected		construction	
		production, if any.	compensation	parties - once			
			(amount paid)	in a quarter			
Flooding hazards	Flooding and	Avoid natural	Contract clauses	Incorporating	POWERGRID	Construction	All packages
due to	loss of soils,	drainage pattern	(e.g., suspended	good	(Contractor	period	
construction	contamination	/facilities being	solids and	construction	through		
impediments of	of receptors	disturbed / blocked	BOD/COD in	management	contract		
natural drainage	(land, water)	/diverted by the on-	receiving water)	practices -	provisions)		
		going construction		once for each			
		activities		site			
Equipment	Contamination	Equipment stored at	Store room level to	Store room	POWERGRID	Construction	# All packages
submerged under	of receptors	secure place above the	be above HFL	level as per	TOVIERGRID	period	" Till packages
flood	(land, water)	high flood level (HFL).	(elevation	flood design -		period	
11004		1100 to te te (111 E).	difference in	once			
			meters)				
Inadequate siting	Loss of land	Existing borrow sites	Contract clauses	Incorporating	POWERGRID	Construction	Substation
of borrow areas	values	will be used to source		good	(Contractor	period	Packages

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Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement and frequency	Institutional responsibility	Implementation schedule	Applicability
(quarry areas)	Пірасі	aggregates, therefore, no need to develop new sources of aggregates	momoreu	construction management practices – once for each site	through contract provisions)	schedule	
Health and safety	Injury and sickness of workers and members of the public	Contract provisions specifying minimum requirements for construction camps Contractor to prepare and implement a health and safety plan. Contractor to arrange for health and safety training sessions	Contract clauses (number of incidents and total lost-work days caused by injuries and sickness)	Contract clauses compliance – once every quarter	POWERGRID (Contractor through contract provisions)	Construction period	All Packages
Inadequate construction stage monitoring	Likely to maximise damages	Training of POWERGRID environmental monitoring personnel	Training schedules	Number of programs attended by each person – once a year Submission of	POWERGRID	Routinely throughout construction period	All Packages
		Implementation of effective environmental monitoring and reporting system using checklist of all contractual environmental requirements	Respective contract checklists and remedial actions taken thereof.	duly completed checklists of all contracts for each site - once			

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Project activity	Potential	Proposed mitigation	Parameter to be	Measurement	Institutional	Implementation	Applicability
/stage	impact	measure	monitored	and frequency	responsibility	schedule	
		Appropriate contact	Compliance report	Submission of			
		clauses to ensure	related to	duly			
		satisfactory	environmental	completed			
		implementation of	aspects for the	compliance			
		contractual	contract	report for each			
		environmental		contract - once			
		mitigation measures.					
Operation and Mai		<b>,</b>	1		1		
Location of	Exposure to	Setback of dwellings to	Compliance with	Setback	POWERGRID	During	Transmission
transmission	safety related	overhead line route	setback distances	distances to		operations	Line Tower
towers and	risks	designed in accordance	("as-built"	nearest houses			Packages
transmission line		with permitted level of	diagrams)	- once in			
alignment and		power frequency and		quarter			
design		the regulation of					
_		supervision at sites.					
Equipment	Contamination	Equipment installed	Substation design to	Base height as	POWERGRID	During	All packages
submerged under	of receptors	above the high flood	account for HFL	per flood		operations	
flood	(land, water)	level (HFL) by raising	("as-built"	design - once		•	
	,	the foundation pad.	diagrams)				
Oil spillage	Contamination	Substation	Substation bunding	Bunding	POWERGRID	During	Substation
1 0	of land/nearby	transformers located	("as-built"	capacity and		operations	Packages*
	water bodies	within secure and	diagrams)	permeability -		1	
		impervious bunded	,	once			
		areas with a storage					
		capacity of at least					
		100% of the capacity of					
		oil in transformers and					
		associated reserve					
		tanks.					

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Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement and frequency	Institutional responsibility	Implementation schedule	Applicability
Inadequate provision of staff/workers health and safety during operations	Injury and sickness of staff appropriately workers technology	Careful design using appropriate technologies to minimise hazards	Usage of appropriate technologies (lost work days due to illness and injuries)	Preparedness level for using these technologies in crisis – once each year	POWERGRID	Design and operation	All Packages
		Safety awareness raising for staff. Preparation of fire emergency action plan and training given to staff on implementing emergency action plan	Training/awareness programs and mock drills	Number of programs and percent of staff /workers covered – once each year			
		Provide adequate sanitation and water supply facilities	Provision of facilities	Complaints received from staff /workers every 2 weeks			
Electric Shock Hazards	Injury/mortality to staff and public	Careful design using appropriate technologies to minimise hazards  Security fences around	Usage of appropriate technologies (number of injury incidents, lost work days) Maintenance of	Preparedness level for using these technologies in crisis – once a month Report on	POWERGRID	Design and Operation	All Packages
		Barriers to prevent climbing on/dismantling of transmission towers	Maintenance of barriers	maintenance – every 2 weeks			

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Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement and frequency	Institutional responsibility	Implementation schedule	Applicability
		Appropriate warning signs on facilities	Maintenance of warning signs				
		Electricity safety	Training	Number of			
		awareness raising in	/awareness	programs and			
		project areas	programs and mock	percent of			
			drills for all concerned parties	total persons covered - once			
				each year			
Equipment specifications and design parameters	Release of chemicals and gases in receptors (air, water, land)	Processes, equipment and systems using cholofluorocarbons (CFCs), including halon, should be phased out and to be disposed of in a manner consistent with the requirements of the Government.	Process, equipment and system design	Phase out schedule to be prepared in case still in use - once in a quarter	POWERGRID	Operations	Substation Packages*
Transmission line maintenance	Exposure to electromagnetic interference	Transmission line design to comply with the limits of electromagnetic interference from overhead power lines	Required ground clearance (meters)	Ground clearance - once	POWERGRID	Operations	Transmission Line Tower Packages
Noise related	Nuisance to neighbouring properties	Substations sited and designed to ensure noise will not be a nuisance.	Noise levels (dB(a))	Noise levels at boundary nearest to properties and	POWERGRID	Operations	Substation Packages*

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Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement and frequency		Implementation schedule	Applicability
Jstage	Impact	nicusure	monitorea	consultation	responsibility	scricuare	
				with affected			
				parties if any -			
				once			

<sup>\*</sup>Substation packages also include Transformer, Reactor, FSC / TCSC Packages