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TABLE: ENVIRONMENTAL MANAGEMENT PLAN

Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement and frequency	Institutional responsibility	Implementation schedule	Applicability
Pre-construction	F	1			-	1	
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 supervision at sites.	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)	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	Potential	Proposed mitigation	Parameter to be	Measurement	Institutional	Implementation	Applicability
/stage	impact	measure	monitored	and frequency	responsibility	schedule	
		should be phased out		Phase out		Part of	
		and to be disposed of		schedule to be		equipment and	
		in a manner consistent		prepared in		process design	
		with the requirements		case still in use			
		of the Government		- once			
Transmission line	Exposure to	Transmission line	Electromagnetic	Line design	POWERGRID	Part of detailed	Transmission
design	electromagnetic	design to comply with	field strength for	compliance		alignment	Line Tower
	interference	the limits of	proposed line	with relevant		survey and	Packages
		electromagnetic	design	standards -		design	
		interference from		once			
		overhead power lines					
Location of	Impact on water	Consideration of tower	Tower location and	Consultation	POWERGRID	Part of tower	Transmission
transmission	bodies and land	location at where they	line alignment	with local		siting survey	Line Tower
towers and		could be located to	selection (distance	authorities		and detailed	Packages
transmission line		avoid water bodies or	to water and/or	and land		alignment	
alignment and		agricultural land.	agricultural land)	owners - once		survey and	
design						design	
	Social inequities	Careful route selection	Tower location and	Consultation	POWERGRID	Part of detailed	
		to avoid existing	line alignment	with local		tower siting and	
		settlements	selection (distance	authorities		alignment	
			to nearest dwellings	and land		survey and	
			or social	owners - once		design	
			institutions)				



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Project activity	Potential	Proposed mitigation	Parameter to be	Measurement	Institutional	Implementation	Applicability
/stage	impact	measure	monitored	and frequency	responsibility	schedule	
		Minimise need to	Tower location and	Consultation	POWERGRID	Part of detailed	
		acquire agricultural	line alignment	with local		tower siting and	
		land	selection (distance	authorities		alignment	
			to agricultural land)	and land		survey and	
				owners - once		design	
Encroachment into	Loss of precious	Avoid encroachment	Tower location and	Consultation	POWERGRID	Part of detailed	Transmission
precious ecological	ecological	by careful site and	line alignment	with local		siting and	Line Tower
areas	values/ damage	alignment selection	selection (distance	authorities -		alignment	Packages
	to precious		to nearest	once		survey / design	
	species		designated				
			ecological				
			protection area)				
		Minimise the need by	Tower location and	Consultation	POWERGRID	Part of detailed	
		using existing towers	line alignment	with local		siting and	
		and RoW wherever	selection	authorities		alignment	
		possible		and design		survey/design	
				engineers -			
				once			
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	



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Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement and frequency	Institutional responsibility	Implementation schedule	Applicability
		Minimise the need by using existing towers, tall towers and RoW, wherever possible Obtain statutory clearances from the Government	or reserved forest) Statutory approvals from Government	Consultation with local authorities and design engineers - once Compliance with regulations - once for each			
Encroachment into farmland	Loss of agricultural productivity	Use existing tower footings/towers wherever possible	Tower location and line alignment selection	subproject Consultation with local authorities and design engineers - once	POWERGRID	Part of detailed alignment survey and design	Transmission Line Tower Packages
		Avoid siting new towers on farmland wherever feasible	Tower location and line alignment selection	Consultation with local authorities and design engineers - once		Part of detailed siting and alignment survey / design	



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Project activity	Potential	Proposed mitigation	Parameter to be	Measurement	Institutional	Implementation	Applicability
/stage	impact	measure	monitored	and frequency	responsibility	schedule	
		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)				
			Statutory approvals	Compliance		Part of detailed	
			for tree trimming	with		siting and	
			/removal	regulations –		alignment	
				once for each		survey /design	
				subproject			
Noise related	Nuisance to	Substations sited and	Noise levels	Noise levels to	POWERGRID	Part of detailed	Substation
	neighbouring	designed to ensure		be specified in		equipment	Packages
	properties	noise will not be a		tender		design	
		nuisance.		documents -			
				once			
Interference with	Flooding	Appropriate siting of	Tower location and	Consultation	POWERGRID	Part of detailed	Transmission
drainage	hazards/loss of	towers to avoid	line alignment	with local		alignment	Line Tower
patterns/Irrigation	agricultural	channel interference	selection (distance	authorities		survey and	Packages



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Project activity	Potential	Proposed mitigation	Parameter to be	Measurement	Institutional	Implementation	Applicability
/stage	impact	measure	monitored	and frequency	responsibility	schedule	
channels	production		to nearest flood	and design		design	
			zone)	engineers -			
				once			
Escape of	Environmental	Transformers designed	Equipment	Tender	POWERGRID	Part of detailed	Transformer
polluting materials	pollution	with oil spill	specifications with	document to		equipment	specifications
		containment systems,	respect to potential	mention		design	
		and purpose-built oil,	pollutants	specifications -		/drawings	
		lubricant and fuel		once			
		storage system,					
		complete with spill					
		cleanup equipment.					
		Substations to include	Substation sewage	Tender	POWERGRID	Part of detailed	Substation
		drainage and sewage	design	document to		substation	packages (civil)
		disposal systems to		mention		layout and	
		avoid offsite land and		detailed		design	
		water pollution.		specifications -		/drawings	
		_		once			
Equipment	Contamination	Substations	Substation design to	Base height as	POWERGRID	Part of detailed	Substation
submerged under	of receptors	constructed above the	account for HFL	per flood		substation	packages (civil)
flood	(land, water)	high flood level (HFL)	(elevation with	design - once		layout and	
	,	by raising the	respect to HFL			design	
		foundation pad.	elevation)			/drawings	
Explosions/Fire	Hazards to life	Design of substations	Substation design	Tender	POWERGRID	Part of detailed	Substation
- '		to include modern fire	compliance with	document to		substation	packages
		control	fire prevention and	mention		layout and	•
		systems/firewalls.	control codes	detailed		design	



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Project activity	Potential	Proposed mitigation	Parameter to be	Measurement	Institutional	Implementation	Applicability
/stage	impact	measure	monitored	and frequency	responsibility	schedule	
		Provision of fire		specifications -		/drawings	
		fighting equipment to		once			
		be located close to					
		transformers.					
Construction							
Equipment layout	Noise and	Construction	Construction	Construction	POWERGRID	Construction	All packages
and installation	vibrations	techniques and machinery selection seeking to minimize ground disturbance.	techniques and machinery	techniques and machinery creating minimal ground disturbance - once at the start of each construction phase	(Contractor through contract provisions)	period	
Physical construction	Disturbed farming activity	Construction activities on cropping land timed to avoid disturbance of field crops (within one month of harvest wherever possible).	Timing of start of construction	Crop disturbance – Post harvest as soon as possible but before next crop - once per site	POWERGRID (Contractor through contract provisions)	Construction period	All packages



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Project activity	Potential	Proposed mitigation	Parameter to be	Measurement	Institutional	Implementation	Applicability
/stage	impact	measure	monitored	and frequency	responsibility	schedule	•
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			
	Increased land	New access ways	Access width	Access	POWERGRID	Construction	
	requirement for	restricted to a single	(meters)	restricted to	(Contractor	period	
	temporary	carriageway width		single	through		
	accessibility	within the RoW.		carriageway	contract		
				width within	provisions)		
				RoW - every 2			
			- 444	weeks			
Temporary	Overflows,	Temporary placement	Temporary fill	Absence of fill	POWERGRID	Construction	All Packages
blockage of	reduced	of fill in drains/canals	placement (m³)	in sensitive	(Contractor	period	
utilities	discharge	not permitted.		drainage areas	through		



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Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement and frequency	Institutional responsibility	Implementation schedule	Applicability
				- every 4 weeks	contract provisions)		
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 m²)	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
	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



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Project activity	Potential	Proposed mitigation	Parameter to be	Measurement	Institutional	Implementation	Applicability
/stage	impact	measure	monitored	and frequency	responsibility	schedule	
		Felled trees and other	Disposal of cleared	Use or	POWERGRID	Construction	
		cleared or pruned	vegetation as	intended use	(Contractor	period	
		vegetation to be	approved by the	of vegetation	through		
		disposed of as	statutory authorities	as approved	contract		
		authorized by the	(area cleared in m ²)	by the	provisions)		
		statutory bodies.		statutory authorities –			
				once per site			
Wood/vegetation harvesting	Loss of vegetation and deforestation	Construction workers prohibited from harvesting wood in the	Illegal wood /vegetation harvesting (area in	Complaints by local people or other evidence	POWERGRID (Contractor through	Construction period	All Packages
		project area during	m ² , number of	of illegal	contract		
		their employment,	incidents reported)	harvesting -	provisions)		
		(apart from locally	1	every 2 weeks	1		
		employed staff					
		continuing current					
		legal activities).					
Surplus	Runoff to cause	Soil excavated from	Soil disposal	Acceptable	POWER GRID	Construction	Transmission
earthwork/soil	water pollution,	tower footings	locations and	soil disposal	(Contractor	period	Line Tower
	solid waste	disposed of by	volume (m³)	sites - every 2	through		Packages
	disposal	placement along		weeks	contract		
		roadsides, or at nearby			provisions)		
		house blocks if					
		requested by landowners.					
Substation	Loss of soil	Fill for the substation	Borrow area siting	Acceptable	POWERGRID	Construction	Substation



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Project activity	Potential	Proposed mitigation	Parameter to be	Measurement	Institutional	Implementation	Applicability
/stage	impact	measure	monitored	and frequency	responsibility	schedule	
construction		foundations obtained by creating or improving local water supply ponds or drains, with the agreement of local communities.	(area of site in m ² and estimated volume in m ³)	borrow areas that provide a benefit - every 2 weeks	(Contractor through contract provisions)	period	Package (Civil)
Substation construction	Water pollution	Construction activities involving significant ground disturbance (i.e. substation land forming) not undertaken during the monsoon season.	Seasonal start and finish of major earthworks (pH, BOD/COD, Suspended solids, other?)	Timing of major disturbance activities - prior to start of construction activities	POWERGRID (Contractor through contract provisions)	Construction period	Substation Package (Civil)
Site clearance	Vegetation	Tree clearances for easement establishment to only involve cutting trees off at ground level or pruning as appropriate, with tree stumps and roots left in place and ground cover left undisturbed.	Ground disturbance during vegetation clearance (area, m²) Statutory approvals	Amount of ground disturbance - every 2 weeks Statutory approvals for tree clearances - once for each site	POWERGRID (Contractor through contract provisions) POWERGRID (Contractor through contract provisions)	Construction period Construction period	Substation Package (Civil)
Tower	Waste disposal	Excess fill from tower	Location and	Appropriate	POWERGRID	Construction	Transmission



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Project activity	Potential	Proposed mitigation	Parameter to be	Measurement	Institutional	Implementation	Applicability
/stage	impact	measure	monitored	and frequency	responsibility	schedule	
construction – disposal of surplus earthwork/fill		foundation excavation disposed of next to roads or around houses, in agreement with the local community or landowner.	amount (m³)of fill disposal	fill disposal locations - every 2 weeks	(Contractor through contract provisions)	period	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	Amenities for Workforce facilities	Presence of proper sanitation, water supply	POWERGRID (Contractor through contract	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
Jounge	Impuct	supply and waste disposal facilities.	nomoreu	and waste disposal facilities - once each new facility	provisions)	Schedule	
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	



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Project activity	Potential	Proposed mitigation	Parameter to be	Measurement	Institutional	Implementation	Applicability
/stage	impact	measure	monitored	and frequency	responsibility	schedule	,
Uncontrolled	Soil loss,	Need for access tracks	Design basis and	Incorporating	POWERGRID	Construction	All Packages
erosion/silt runoff	downstream	minimised, use of	construction	good design	(Contractor	period	
	siltation;	existing roads.	procedures	and	through		
		Limit site clearing to	(suspended solids	construction	contract		
		work areas	in receiving waters;	management	provisions)		
		Regeneration of	area re-vegetated in	practices -			
		vegetation to stabilise	m ² ; amount of	once for each			
		works areas on	bunds constructed	site			
		completion (where	[length in meter,				
		applicable)	area in m², or				
		Avoidance of	volume in m³])				
		excavation in wet					
		season					
		Water courses					
		protected from					
		siltation through use of					
		bunds and sediment					
		ponds					
Nuisance to	Losses to	Contract clauses	Contract clauses	Incorporating	POWERGRID	Construction	All Packages
nearby properties	neighbouring	specifying careful		good	(Contractor	period	
	land uses/	construction practices.		construction	through		
	values			management	contract		
				practices -	provisions)		
				once for each			
				site			



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Project activity	Potential	Proposed mitigation	Parameter to be	Measurement	Institutional	Implementation	Applicability
/stage	impact	measure	monitored	and frequency	responsibility	schedule	
		As much as possible	Design basis and	Incorporating			
		existing access ways	layout	good design			
		will be used.		engineering			
				practices -			
				once for each			
				site			
		Productive land will be	Reinstatement of	Consultation			
		reinstated following	land status (area	with affected			
		completion of	affected, m ²)	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			



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Project activity /stage	Potential impact	Proposed mitigation measure	Parameter to be monitored	Measurement and frequency	Institutional responsibility	Implementation schedule	Applicability
Equipment submerged under flood	Contamination of receptors (land, water)	Equipment stored at secure place above the high flood level (HFL).	Store room level to be above HFL (elevation difference in meters)	Store room level as per flood design - once	POWERGRID	Construction period	# All packages
Inadequate siting of borrow areas (quarry areas)	Loss of land values	Existing borrow sites will be used to source aggregates, therefore, no need to develop new sources of aggregates	Contract clauses	Incorporating good construction management practices – once for each site	POWERGRID (Contractor through contract provisions)	Construction period	Substation Packages
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



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Project activity	Potential	Proposed mitigation	Parameter to be	Measurement	Institutional	Implementation	Applicability
/stage	impact	measure	monitored	and frequency	responsibility	schedule	
Inadequate	Likely to	Training of	Training schedules	Number of	POWERGRID	Routinely	All Packages
construction stage	maximise	POWERGRID		programs		throughout	
monitoring	damages	environmental		attended by		construction	
		monitoring personnel		each person -		period	
				once a year			
		Implementation of	Respective contract	Submission of			
		effective	checklists and	duly			
		environmental	remedial actions	completed			
		monitoring and	taken thereof.	checklists of			
		reporting system using		all contracts			
		checklist of all		for each site -			
		contractual		once			
		environmental					
		requirements					
		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		T		T	T		
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	l '	nearest houses			Packages
transmission line		with permitted level of	diagrams)	- once in			



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Project activity	Potential	Proposed mitigation	Parameter to be	Measurement	Institutional	Implementation	Applicability
/stage	impact	measure	monitored	and frequency	responsibility	schedule	
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
	of land/nearby	transformers located	("as-built"	capacity and		operations	Packages*
	water bodies	within secure and	diagrams)	permeability -			
		impervious bunded		once			
		areas with a storage					
		capacity of at least					
		100% of the capacity of					
		oil in transformers and					
		associated reserve					
		tanks.					
Inadequate	Injury and	Careful design using	Usage of	Preparedness	POWERGRID	Design and	All Packages
provision of	sickness of staff	appropriate	appropriate	level for using		operation	
staff/workers	/workers	technologies to	technologies (lost	these			
health and safety		minimise hazards	work days due to	technologies			
during operations			illness and injuries)	in crisis - once			
				each year			
		Safety awareness	Training/awareness	Number of			
		raising for staff.	programs and mock	programs and			



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Project activity	Potential	Proposed mitigation	Parameter to be	Measurement	Institutional	Implementation	Applicability
/stage	impact	measure	monitored	and frequency	responsibility	schedule	
		Preparation of fire	drills	percent of staff			
		emergency action plan		/workers			
		and training given to		covered - once			
		staff on implementing		each year			
		emergency action plan					
		Provide adequate	Provision of	Complaints			
		sanitation and water	facilities	received from			
		supply facilities		staff / workers			
				every 2 weeks			
Electric Shock	Injury/mortality	Careful design using	Usage of	Preparedness	POWERGRID	Design and	All Packages
Hazards	to staff and	appropriate	appropriate	level for using		Operation	
	public	technologies to	technologies	these			
		minimise hazards	(number of injury	technologies			
			incidents, lost work	in crisis - once			
			days)	a month			
		Security fences around	Maintenance of	Report on			
		substations	fences	maintenance -			
		Barriers to prevent	Maintenance of	every 2 weeks			
		climbing	barriers				
		on/dismantling of					
		transmission towers					
		Appropriate warning	Maintenance of]			
		signs on facilities	warning signs				



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



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Project activity	Potential	Proposed mitigation	Parameter to be	Measurement	Institutional	Implementation	Applicability
/stage	impact	measure	monitored	and frequency	responsibility	schedule	
		nuisance.		properties and			
				consultation			
				with affected			
				parties if any -			
				once			

^{*}Substation packages also include Transformer, Reactor, FSC / TCSC Packages

