

Annexure 1: List of Priority 1 Civil Structures / Components for condition assessment

Plan Name	Component / Area	Item	Description of Activity / Detailed Requirements
Boiler	Furnace	Boiler MS Structure repairing at 56 mtr. Level	Welding, repairing and painting of steel members such as angle, channels for boiler MS structure
Material Handling Plant	Lime handling, lime dosing	Strengthening & repairing of Structure at Lime system	Repairing / replacement of damaged steel structure
Material Handling Plant	Lignite handling plant	Dump Hopper internal slab strengthening	Dump hoppper slab strenghtening required - carbon plate, MS plate to be fixed
Boiler	Furnace	FOPH slab strengthening / replacement work.	Retrofitting / Water proffing works with plastering of slab to be carried out for fuel oil pump house panel room and pump room
Boiler	Boiler and ESP	Boiler and ESP structural strengthening	Inspection of existing columns and other structural supports in the Boiler and ESP along with identification of remedial measures
Material Handling Plant	Ash handling plant	Silo Column retrofitting	Determine the existing strength and condition of concrete; perform structural stability analysis to provide details of repair/ strengthening schemes with material specifications {for 4 Nos of existing Silos (3 Nos. of Fly Ash & 1 Ash Bed Silo)}
Material Handling Plant	Miscellaneous	Repair of items in lime handling system	Strengthening of house roof sheet,side cladding,conveyor hoods, staircase and conveyor walkway in lime handling system
Material Handling Plant	Material handling plant	Inspection and Repairing of rail track (For stacker cum reclaimer)	Repairing of foundtion, inspection and repairing of rails, welding, fixing and miscallaneous repairs
SWTP	Sea Water Treatment Plant	Replacement of RCC Intake Channel Tie beam (with ISMB Beam)	ISMB beam to be constructed above existing beam (design required from consultant) total length of RCC Intake Channel - 170m, No. of tie beams - 47 (Approx size - 500mm x 800mm of length 6m)

SWTP	Sea Water Treatment Plant	Desilting of RCC Intake channel	<ol style="list-style-type: none"> 1. Dredging of silt and their admixtures from RCC intake channel with fore-bay and silt chamber. 2. Depositing the dredged materials on shore alongside of channel 3. Dismantling of the structural work if it is an obstruction during working and refixing the same. 4. Providing infrastructure for movement of Toyo pump machine, mud pump or equivalent
SWTP	Sea Water Treatment Plant	Repair of Forbay RCC channel outer wall	Strenghtening of existing wall by jacketing, micro concreting or guniting / shotcreting
SWTP	Sea Water Treatment Plant	Repairing of Forbay Gate (U#1&2) RCC & MS supporting structure	Construction of forebay gate with RCC beam and Column with MS gate
SWTP	Sea Water Treatment Plant	Retrofitting of pretreatment plant flocculater walk way area at Vatech	As per estimate of multiple item of Size of (1.2m*7m) 9 nos
SWTP	Sea Water Treatment Plant	Dredging of opencut sea water channel	<ol style="list-style-type: none"> 1. Dredging of silt and their admixtures from RCC intake channel with fore-bay and silt chamber. 2. Depositing the dredged materials on shore alongside of channel 3. Dismantling of the structural work if it is an obstruction during working and refixing the same. 4. Providing infrastructure for movement of Toyo pump machine, mud pump or equivalent
CW and CCW System	Cooling tower	Outerside chamber / drain repairing and strengthning	Lumpsum plaster work, masonry work, concrete work
CW and CCW System	Cooling tower	Repair of railing and I-beam for Cooling tower	Inspection of existing railing and repairing / replacement of the damaged portion of railing
CW and CCW System	CW Pump House	Retrofitting of CW Pump House structure - RCC and Steel structure	Retrofitting of CW Pump house structure, Staircase, column, supporting beam and repairing etc.(Column - 0.45*0.45*2.5m - 2 nos, beam - 0.30*0.45*1.3m- 2 nos., waist slab - 4.3*1m - thickness 125mm - 2 nos, landing - 1.40*1m - 2 nos))
Roof and floor works	Turbine: TG Hall	Inspection and repair of turbine floor roof replacement and side cladding	<p>Dismantling of existing sheets.</p> <p>Providing & fixing of 0.5mm thick Corrugated Galvalum Sheets roofing fixed with self drilling screws coated for cladding</p>

Roof and floor works	Turbine	Inspection and Repair of Turbine roof	<ol style="list-style-type: none"> 1. Fixing of MS deck sheet of permanently color coated galvanised MS troughed metal sheet decking plate. 2. Fixing of plates to beams, side lapping, end lapping, keeping space for fixing of turbo ventilators etc. 3. Supply & fixing of wind driven roof turbo ventilator fans with FRP / metallic base plate suitable to existing deck sheet roof profile on turbine floor roof for 42 nos.
Roof and floor works	Turbine	Inspection and Repair of Turbine roof cladding sheet	<ol style="list-style-type: none"> 1. Dismantling of existing sheets, 2. Providing & fixing of 0.5mm thick Corrugated Galvalum Sheets roofing fixed with self drilling screws coated for cladding.
Roof and floor works	Main Turbine	Inspection and Repair of P/F Turbine floor roof drain	Design and installation of roof drain at turbine floor
Chimney Repair	Chimney	Replacement of MS ladder and platform at chimneys	Replacement of MS ladder and platform for 2 chimney - design and construction
Chimney Repair	Chimney	Chimney RCC structure Retrofitting	Chimney RCC structure and bottom dome structure repair and retrofitting
Chimney Repair	Chimney	Chimney road drain height enhancement	Masonry/Concrete work to be consider as per site situation
Roof and floor works	Turbine: TG Hall	Inspection and Repair of Steel Structure at Main Turbine: TG Hall	Identification of necessary repair works along with bill of quantities
Roof and floor works	CCW Pump house	Inspection and Repairing of house flooring	Identification of necessary repair works along with bill of quantities