	<b>Scope of work for MCW, CEP and RW Pumps Annual Maintenance Service</b>	<b>GTPP1-22-SOW-ME-SPE05</b>	
		<b>Date: 07/03/2022</b>	<b>Rev: 0</b>

### Description of work:

The scope of work considers to carry-out the annual maintenance works for the MCW, CEP and RW Pumps at the Gardabani Thermal Power Plant, Georgia.

### Work Details:

Type of Work: MCW, CEP and RW Pumps annual maintenance works.

Detailed Pumps Drawings: Refer #Annexure-1

Work Timeline: July-August 2022 year.


### Pumps Technical Details:

S. No	Description	Technical Details/ Manufacturer	QTY
1	Main Cooling Water Pumps (MCW)	Main Cooling Water Pumps (MCW) Manufacturer: Kirloskar Brothers Ltd Work Order No: C56714A501/0010 Pump Model No: BHQ65M(E)-Single Stage Pump S. No: 152K314001, 152K314002& 152K314003	<b>3 No's</b>
2	Condensate Extraction Pumps (CEP)	Condensate Extraction Pumps (CEP) Manufacturer: Kirloskar Brothers Ltd Work Order No: C56714A501 Pump Model No: BHRC28D-Three stages Pump S. No: 156V114001& 156V114002	<b>2 No's</b>
3	Raw Water Pumps (RWP)	Raw Water Pumps (RWP) Manufacturer: Kirloskar Brothers Ltd Work Order No: C56714A501/0030 Pump Model No: BHR35-18°- Two stage Pump S. No: 153B514003& 153B514004	<b>2 No's</b>

### Detailed Scope of work

Scope of work consist of following but shall not be limited to

- The Contractor/agency manpower shall report to the site along with PPE to attend the welding works, maintenance, and repair activities.
- The Contractor/agency shall submit the method statements/ work procedure for the pump's maintenance works.
- The Contractor/agency-supervisor/engineer should report to owner's Engineer for taking necessary steps and activities to be executed according to mutual coordination of each other before starting the any activity.
- The Contractor/agency supervisor/engineer should provide the methodology/ideology and briefly explain to the technical staff any problems with the pumps during maintenance.
- The Service engineer must collect the motor & pump coupling alignment readings Any correction should be done.

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- f. Dismantling/assembling, shifting, internal inspections (mechanical seals/ bearings/ shaft, impellers/ discs, wearing rings/ sleeves, couplings, etc.), servicing the internals and replace new parts of the pumps wherever required. And the same has to explain and coordinate with the owner's engineer.
- g. The contractor/agency service team shall follow appropriate attention while rigging & lifting, shifting of Equipment and internal parts.
- h. Daily Activity/ Progress Report should be submitted to the Owners' engineer.

#### **Standards:**

- a. ISO 1940-1:2003 Mechanical vibration
- b. ANSI/ASA S2.75-2017 shaft alignment methodology

#### **General Terms& Conditions:**

1. The contractor/ agency should follow the plant safety rules and regulations.
2. The contractor/ agency has to follow the GTPP work permit system.
3. Safety equipment's for their personnel should be arranged by the contractor/ agency.
4. Crane, Spare parts, metallic/ graphite gaskets, and consumables etc. required for attending the pumps shall be supplied by GTPP.
5. General tools/ special tools and tackles required for attending the pumps maintenance, repair and welding works shall be supplied by GTPP.
6. The contractor/agency shall be required to mobilize skilled and qualified technician and Service engineer for handling the pumps maintenance, repair works according to the quantum of job mentioned in scope of work.
7. Final maintenance/ repair reports shall be submitted after completion of the Maintenance/ repair works or before leaving from plant.



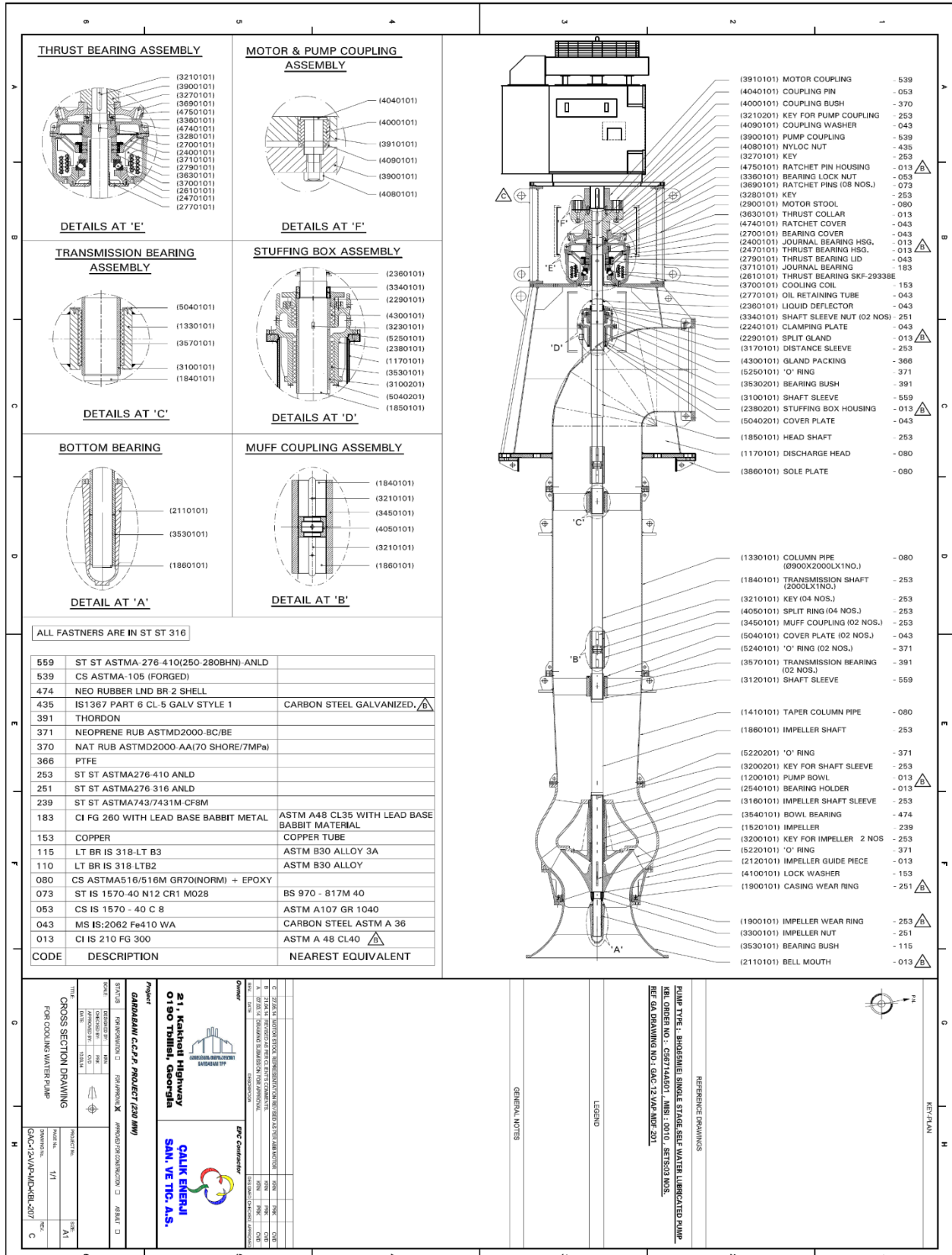
# Scope of work for MCW, CEP and RW Pumps Annual Maintenance Service

GTTP1-22-SOW-ME-SPE05

Date: 07/03/2022

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## Annexure#1\_Main Cooling Water Pumps (MCW) Detailed Drawing





# Scope of work for MCW, CEP and RW Pumps Annual Maintenance Service

GTPP1-22-SOW-ME-SPE05

Date: 07/03/2022

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## Annexure#1\_Condensate Extraction Pumps (CEP) Detailed Drawing

