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## For Sale: Ref. GT-CC-066

### Two (2) unused 750 MW CCGT Power Plants

#### Brief History:

The project was developed considering unlimited availability of natural gas and project was to complete in 2012. However towards end of 2011 the project was put on hold due to expiry of natural gas.

Meanwhile four gas turbines and some of the BOP equipment were erected but never commissioned, the same is valid for the Steam Turbines and 2 HRSGs which were not or just partly erected. Since then the entire equipment is under OEM preservation and was never used nor commissioned.

OEM warranty of Gas Turbine and Steam Turbine will be revalidated and transferred to new owners, subject to new owners entering into an LTSA (Long Term Service Agreement) with OEM.



March - 2020

**Technical Details of Key Equipment of 2 x 750 MW Gas  
(convertible to dual fuel) Based Power Plant see next page**

**TECHNICAL INFORMATION – KEY EQUIPMENT of EACH BLOCK**

| # | Name of the Equipment offered | Nos. offered for Quoting | Details/ Broad Specifications  |
|---|-------------------------------|--------------------------|--|
| 1 | Gas Turbines and Auxiliaries  | 2 Sets<br>(2 x 255 MW)   | <p>Manufacturer: M/s General Electric, USA</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>▪ Model MS9001-FA</li> <li>▪ Standard heavy-duty, base-mounted, single shaft, Three stage, installed with modulating inlet guide vanes</li> <li>▪ Designed for firing with natural gas fuel (convertible)</li> <li>▪ Load Commuting Inverter (LCI) adjustable frequency drive one (1) included for two (2) numbers of GTGs.</li> <li>▪ Inlet air system with self cleaning inlet filters equipped with pulse jet cleaning system along with compressor bleed air supply arrangement.</li> <li>▪ Evaporative cooling system (on-off type)</li> </ul> |
| 2 | Steam Turbine                 | 1 Set<br>(1 x 270 MW)    | <p>Manufacturer: M/s General Electric, USA</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>▪ Model D11</li> <li>▪ Two-cylinders (combined HP/IP and double flow LP)</li> <li>▪ Reheat, condensing type having provision for injecting IP steam and LP steam at intermediate stages.</li> <li>▪ Directly coupled to a 3000 rpm synchronous Generator.</li> </ul>  |
| 3 | Condenser & Auxiliaries       | 1 Set                    | <p>Manufacturer: M/s Hangzhou Boiler group, China</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>▪ Horizontal surface type provided with on line tube cleaning system.</li> <li>▪ The condensate system consisting of following equipments:</li> <li>▪ 2x100% vertical, multistage, canister type, electrical motor driven Condensate Extraction Pumps (CEP)</li> <li>▪ 2x100% Vacuum pumps</li> </ul>  |

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| 4  | HRSG & Auxiliaries             | 2 Sets                   | <p>Manufacturer: M/s CMI, USA</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>▪ Triple pressure, reheat, natural circulation type, unfired, horizontal, outdoor type HRSGs to produce steam for the condensing type Steam Turbine Units (Two HRSGs to feed one Steam Turbine).</li> <li>▪ All accessories and auxiliaries including drums, super heaters, evaporators, economizer, condensate pre-heater, circulation pumps for LP economizers etc. Associated auxiliaries like Boiler Feed Pumps, Blow down tanks, Steel stack, Feed regulating station, Super heater / Re-heater steam temperature control system, integral HRSG piping and piping between HRSG and Steam turbine package including 100% HP/IP/LP Cascading Steam Turbine Bypass system,</li> <li>▪ High pressure chemical feed system and complete ducting system from gas turbine outlet to HRSG inlet.</li> </ul> |
| 5  | Gas insulated Switchyard       | 1 No's                   | <p>Manufacturer: M/s Xian, China</p> <p>Specifications: 400kV</p>  |
| 6  | Generator Circuit Breaker      | 3 No's                   | Manufacturer: M/s ABB Schweiz AG, Switzerland  |
| 7  | Generator Transformer          | 3 No's                   | <p>Manufacturer: M/s Hyundai, Korea</p> <p>Specifications: Rating 15.75 kV/400kV</p>   |
| 8  | Unit Aux. Transformer          | 2 No's                   | <p>Manufacturer: M/s Areva (Alstom), India</p> <p>Specifications: Rating : 15.75/6.6kV</p>   |
| 9  | Start Up Transformer           | 1 No's                   | Manufacturer: M/s Areva (Alstom), India  |
| 10 | DCS                            | 1 No's                   | Manufacturer: M/s Honeywell, India   |
| 11 | Generator Bus duct (IPBD)      | 3 No's                   | Manufacturer: M/s C&S, India   |
| 12 | Cooling Water pumps with Motor | 3 No's                   | <p>Manufacturer: M/s WPIL, India</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>▪ Vertical wet pit CW Pumps, capacity 23500 M3/Hr @24 MWC , HT motors with 2100kW capacity</li> </ul>   |

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|----|---|-----------------------------------|--|
| 13 | Cooling tower                             | 1 No's                            | <p>Manufacturer: M/s Hamon, China/ India</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>▪ FRP Type, Total – 18 Cells</li> <li>▪ Water Flow rate = 46500 M3 /Hr</li> <li>▪ Range = 9 Deg C</li> <li>▪ Approach = 4 Deg C</li> <li>▪ Ambient WBT = 27.2 Deg C</li> <li>▪ Design WBT = 28 Deg C</li> <li>▪ Hot &amp; Cold Water Temp = 41 Deg C &amp; 32 Deg C</li> </ul>  |
| 14 | EOT crane                                 | Total 2 Sets                      | <p>Manufacturer: M/s. Anupam Industries, India</p> <p>Specifications: 90/15 MT capacity in GT Hall &amp; 95/15 MT capacity in ST Hall</p>  |
| 15 | Fuel Gas Conditioning & Regulating System | 1 No's Common and 2 Nos dedicated | <p>Manufacturer: M/s Multiplex Filtration Ltd, India</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>▪ Emergency Shut Down Valve (1x100% for Station)</li> <li>▪ Design Pressure: 65 kg/cm<sup>2</sup> (g)</li> <li>▪ Design Temperature : 50°C</li> <li>▪ Flow range : 0 to 87 Kg/sec</li> <li>▪ Fuel Gas Metering Station (1x100% for station)</li> <li>▪ Knock Out Drum (1x100% for station)</li> <li>▪ Filter separator (3x50 %), 5 micron (solid +liquid)</li> <li>▪ Fuel Gas Startup Heater (3x33%)</li> <li>▪ Gas Pressure reducing station (3x50%)</li> <li>▪ Fuel Gas Performance/ Efficiency Heater (1x100% for each Gas Turbine)</li> <li>▪ Fine filter or Absolute Filters (2x100% for each Gas Turbine)</li> <li>▪ Fuel Condensate drainage, Valves &amp; Piping</li> </ul> |
| 16 | Compressed Air System                     | 1 No's                            | <p>Manufacturer: M/s Atlas Copco, France/ India</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>▪ Screw Compressors, Capacity 25NM<sup>3</sup>, Three Nos,</li> <li>▪ HOC Type Dryers -3 Nos</li> </ul>  |