

2X800 MW KODERMA THERMAL POWER PROJECT STAGE-II

Annexure - 2 (revised) Scope Matrix for EPC PKG-Coal, biomass, limestone & gypsum handling plant

BROAD SCOPE: The scope for complete Coal, biomass, limestone & gypsum handling system shall include complete design, engineering, manufacture/supply, shop fabrication, assembly, testing & inspection at manufacturer's works, maintenance tools & tackles, mandatory spares, spares for erection, start-up and commissioning as required, fill of lubricants & consumables, packing, despatch, transportation, delivery to site, unloading, handling & storage at site, construction of Stores at site (Open & Closed), round the clock security at open storage yard , closed storage shed & erected material till completion of work, construction, erection, its supervision, testing ,inspection, commissioning and handing over to Owner and Guarantee testing, including all associated Mechanical, all auxiliary systems, Civil & Structural Steel Works, Architectural Works, Electrical, Control & Instrumentation Works as specified in tender specification, amendments & agreements till placement of order & as necessary for completeness in all respects and for efficient & trouble free operation for 2X800 MW KODERMA THERMAL POWER PROJECT STAGE-II

Sl. No./Chapter	Description	DETAIL SCOPE				Remarks
		DESIGN / ENGG	SUPPLY	ERECTION / EXECUTION	TESTING / COMMISSIONING	
1	Complete Coal handling plant as per descriptions given in NIT specification (document No. DVC/C&M/Engineering/KTPS(2X800MW)/EPC/IPHB), BHEL technical enquiry specification and subsequent amendments, clarifications if any till placement of order.	BIDDER	BIDDER	BIDDER	BIDDER	CHP: Broad scope starts from wagon tippler/TRACK HOPPER to bunker floor as marked in the enclosed flow diagram. Supply and E&C of stacker cum reclaimers machines (2 nos) is excluded from bidder's scope. However all civil and structural works related to stacker is included in bidder's scope.
2	Complete Biomass handling plant as per descriptions given in NIT specification (document No. DVC/C&M/Engineering/KTPS(2X800MW)/EPC/IPHB), BHEL technical enquiry specification and subsequent amendments, clarifications if any till placement of order.	BIDDER	BIDDER	BIDDER	BIDDER	BHP: Broad scope starts from biomass truck tipplers to discharge on coal conveyors as marked in the enclosed flow diagram
3	Complete Limestone handling plant as per descriptions given in NIT specification (document No. DVC/C&M/Engineering/KTPS(2X800MW)/EPC/IPHB), BHEL technical enquiry specification and subsequent amendments, clarifications if any till placement of order.	BIDDER	BIDDER	BIDDER	BIDDER	LHP: Broad scope starts from limestone truck tipplers to day silo floor as marked in the enclosed flow diagram
4	Complete Gypsum handling plant as per descriptions given in NIT specification (document No. DVC/C&M/Engineering/KTPS(2X800MW)/EPC/IPHB), BHEL technical enquiry specification and subsequent amendments, clarifications if any till placement of order.	BIDDER	BIDDER	BIDDER	BIDDER	GHP: Broad scope starts from vacuum belt filter to gypsum storage shed as marked in the enclosed flow diagram
5	Complete Mill reject handling system as per descriptions given in NIT specification (document No. DVC/C&M/Engineering/KTPS(2X800MW)/EPC/IPHB), BHEL technical enquiry specification and subsequent amendments, clarifications if any till placement of order.	BIDDER	BIDDER	BIDDER	BIDDER	MRS, battery limit for civil works beyond first bay of mill bay columns shall be under CHP vendor scope (refer sketch attached in Annexure 29). Following are the broad scope but not limited to as mentioned below : i) Pedestal/support for conveyor & conveyor walkway after mill bay battery limit. ii) Bucket elevator pit and associated civil work with foundation/support for bucket elevator. Sump pit in bucket elevator pit. iii) MRS silo and staircase foundation, pedestals and associated civil. Refer Annexure 28 for scope matrix of MRH system
6	AUXILIARY SYSTEM for above mentioned systems LIKE DE, DS, AC, VENTILATION, SERVICE WATER, POTABLE WATER, SERVICE AIR, COOLING WATER (as applicable), SUMP PUMPS (as applicable) etc.as per descriptions given in NIT specification (document No. DVC/C&M/Engineering/KTPS(2X800MW)/EPC/IPHB), BHEL technical enquiry specification and subsequent amendments, clarifications if any till placement of order.	BIDDER	BIDDER	BIDDER	BIDDER	

7	Fire fighting System for CHP/LHP/GHP/BMHP	BIDDER	BIDDER	BIDDER	BIDDER	<p>The Fire Protection System including the Fire Detection and Alarm system and Spray System for the CHP-BMHP-LHP-GHP area shall be supplied erected and commissioned by the bidder.</p> <p>Necessary inputs shall be exchanged between the PESD and EPC vendor during the detailed engineering stage.</p> <p>Necessary hook up linkage to the main plant (if required) shall be done by bidder.</p>
8	Site clearance including cutting of trees of girth less than 30 centimeters. Cutting of trees of girth more than 30cm shall be done by the Owner, however, removal and disposal of roots, trees of girth less than 30cm and other vegetation is in Bidder's scope.	BIDDER	BIDDER	BIDDER	BIDDER	
9	Levelling and grading	BIDDER	BIDDER	BIDDER	BIDDER	Levelling & Grading including micrograding works of CHP/BMHP area is in BIDDER's scope. (Detail sketch attached in Annexure 26 marked as "CHP area")
10	3D modelling	BIDDER	BIDDER	BIDDER	BIDDER	Complete CHP/LHP/GHP/BMHP model including Civil, structural, mechanical, electrical, C&I in E3D software All Structures- RC & Steel Structure in Tekla
11	Road & drains	BIDDER	BIDDER	BIDDER	BIDDER	The scope of road & drain shall cover for the entire buildings/facilities and Drainage system shall be designed considering the drainage network of entire plant. For tentative Road layout refer Annexure-27. Drainage system of coal/wash water shall be as per technical specification.
12	Sewarage system	BIDDER	BIDDER	BIDDER	BIDDER	Sewarage system shall be connected to the collection/lifting pit. Collection pit/Lifting pit shall be constructed by BIDDER with in CHP-LHP-GHP-BMHP area , BIDDER shall further connect to system to main collection pit constructed by BHEL outside CHP-LHP-GHP-BMHP area .
13	Any other scope not mentioned above but required for suceessful completion of the package.	BIDDER	BIDDER	BIDDER	BIDDER	
14	Topographical Survey.	BHEL	BHEL	BHEL	BHEL	
15	Detailed Geotechnical Investigation.	BHEL	BHEL	BHEL	BHEL	<p>Priliminary Geotechnical Investigation report is part of the tender documents and same shall be referred for estimation purpose.</p> <p>BHEL will provide the detailed Geotechnical Investigation reports to the sucessful bidder.However bidder may carryout additional Geotechnical Investigation if required without any extra cost and time as per technical specification.</p>
16	PIPE RACK / CABLE RACK	BIDDER	BIDDER	BIDDER	BIDDER	<p>The Pipe/cable rack which is being required for CHP-BMHP-LHP-GHP package shall be in the scope of bidder including the Civil and Structural Design, fabrication, supply and erection at site.</p> <p>Pipes for certain utilities (like Service Air, Instrument air, Service Water, Potable water) and any other pipes (if required to be crossed), the tentative inputs shall be provided by BHEL to bidders. However, final inputs shall be furnished to successful bidder during detailed engineering. The space for these pipes to be provided by EPC bidder over their pipe/cable rack</p>