

**EPC PACKAGE FOR LARA SUPER THERMAL POWER PROJECT, STAGE-II (2x800 MW)**  
**Amendment No. 03 to Technical Specifications Section-VI of Bidding Document No.: CS-9587-001R-2**

S. No.	SPECIFICATION REFERENCE				Instead of	Read as
	Section / Part	Sub-Section	Clause No.	Page No.		
<b>D3-01</b>	Amendme nt no 2 to Technical specificat ion. D2-16		<b>TENDER DRAWINGS</b>		9587-999-POC-F-001-Rev-A	<b>9587-999-POC-F-001-Rev-B</b>
					9587-999-POC-F-002-Rev-A Sheet 1	<b>9587-999-POC-F-002-Rev-B Sheet 1</b>
					9587-999-POC-F-002-Rev-A Sheet 2	<b>9587-999-POC-F-002-Rev-B Sheet 2</b>
					9587-001-POC-A-003-Rev-A	<b>9587-001-POC-A-003-Rev-B</b>
					9587-001-POC-A-004-Rev-A	<b>9587-001-POC-A-004-Rev-B</b>
					9587-001-POC-A-005-Rev-A	<b>9587-001-POC-A-005-Rev-B</b>
					9587-001-POC-A-06-Rev-A	<b>9587-001-POC-A-06-Rev-B</b>
<b>D3-02</b>	Amendme nt no 2 to Technical specificat ion. D2-01				DEVELOPMENT OF LAYDOWN AREA Bidder shall use a lay down area as shown in GLP. One area marked in GLP totalling 75 acres(approx.) are identified as laydown/preassembly area. <b>Further, bidder to note that this 75 acres of land shall be converted into reservoir by bidder.</b> Fencing of the laydown area in the area marked for laydown is also in Bidder's Scope	DEVELOPMENT OF LAYDOWN AREA Bidder shall use a lay down area as shown in GLP. One area marked in GLP totalling 75 acres(approx.) are identified as laydown/preassembly area. <b>Additional area of approximately 25 acres shall be allocated within plant premises during construction stage. Bidder to manage the allocated laydown area in reservoir area such that it can be vacated in phased manner for construction of reservoir as per project schedule. This 75 acres of land shall be converted into reservoir by bidder.</b> Fencing of the laydown area in the area marked for laydown is also in Bidder's Scope
<b>D3-03</b>	VI/A	IID	<b>1.00.00</b>	<b>3 OF 8</b>	9. Civil, structural, architectural works of all facilities associated with complete Flue gas desulfurization (FGD) including Gypsum handling system and DeNOx system.	9. Civil, structural, architectural works of all facilities associated with complete Flue gas desulfurization (FGD) including Gypsum <b>and lime stone</b> handling system and DeNOx system.
<b>D3-04</b>	VI/A	IID	<b>1.00.00</b>	<b>3 OF 8</b>	10 i) RCC pedestals for ash slurry disposal pipes <b>lines</b> inside plant boundary	10 i) RCC pedestals for ash slurry disposal <b>and Ash water recirculation</b> pipes inside plant boundary

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<b>D3-05</b>	VI/A	IID	<b>1.00.00</b>	<b>4 OF 8</b>	<p>19. Coal, Bio mass and Gypsum Handling Plant  All civil, structural &amp; architectural works associated with coal and Gypsum handling plant, i.e. track hopper, transfer points, crusher houses, overhead/ground conveyor galleries, tunnels for conveyor galleries, Bio mass silo ,stacker/reclaimer foundations, pump houses, MCC/Control Buildings, penthouse, Truck tipplers, stock pile area with wind barrier, Gypsum storage shed, drainage, interconnections with existing transfer points and all other related works complete as per system requirement.</p>	<p>19. Coal, <b>Limestone</b>, Bio mass and Gypsum Handling Plant  All civil, structural &amp; architectural works associated with coal, <b>Lime stone</b> and Gypsum handling plant, i.e. track hopper, transfer points, crusher houses, overhead/ground conveyor galleries, tunnels for conveyor galleries, <b>Limestone and</b> Bio mass silo ,stacker/reclaimer foundations, pump houses, MCC/Control Buildings, penthouse, Truck tipplers, stock pile area with wind barrier, Gypsum storage shed, drainage, interconnections with existing transfer points and all other related works complete as per system requirement.</p>
<b>D3-06</b>	VI/A	IID	<b>1.00.01</b>	<b>4 OF 8</b>	<p>All steel structures shall be fabricated in factory, transported and erected at site. All factory-fabricated structures shall have bolted field connections. Coal bunkers with hoppers, Chimney flue liners, CW duct liners can either be fabricated at factory in segments, transported and welded at site before erection or fabricated at site. For coal bunkers, hoppers and chimney flue liners, to prevent coal dust/flue gas</p>	<p>All steel structures shall be fabricated in factory, transported and erected at site. All factory-fabricated structures shall have bolted field connections. Coal bunkers with hoppers, <b>lime storage silos</b>, Chimney flue liners, CW duct liners can either be fabricated at factory in segments, transported and welded at site before erection or fabricated at site. For coal bunkers, hoppers and chimney flue liners, to prevent coal dust/flue gas leakages, the applicable field joints shall necessarily be welded.  Note: Steel structures shall mean plant and non-plant building structures, boiler &amp; ESP</p>

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					leakages, the applicable field joints shall necessarily be welded. Note: Steel structures shall mean plant and non-plant building structures, boiler & ESP support structures, Coal and Gypsum handling structures, AHP structures, chimney flue liners support platforms & stairs, pipe and cable support structures. Civil, structural and architectural works though not explicitly mentioned in the above list but required for the completion of the various systems of the package shall also be in the scope of the bidder.	support structures, Coal, <b>lime stone</b> and Gypsum handling structures, AHP structures, chimney flue liners support platforms & stairs, pipe and cable support structures. Civil, structural and architectural works though not explicitly mentioned in the above list but required for the completion of the various systems of the package shall also be in the scope of the bidder.
<b>D3-07</b>	VI/B	D-1-5	<b>4.01.00</b>	<b>1 OF 4</b>	b) Face of the buildings and facilities are located in such a way so as to have an offset of <b>minimum 15 to 20m with respect to center line of road.</b>	Face of the buildings and facilities are located in such a way so as to have an offset of <b>minimum 15m with respect to center line of double lane road and 12 meter with respect to center line of single lane road.</b>
<b>D3-08</b>	VI/B	D-1-5	<b>5.02.04</b> ii	<b>6 OF 86</b>	Boiler supporting structure shall be designed by..... Boiler Elevator Machine Room Floor of Machine Room shall be provided with profiled metal decking sheet. Trough	Boiler supporting structure shall be designed by..... Boiler Elevator Machine Room Floor of Machine Room shall be provided with profiled metal decking sheet. Trough shall be filled with Insulating Material (glass wool or rock wool) and thereafter finished with Minimum 50 mm thick.....

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					shall be filled with Insulating Material (glass wool or rock wool) and thereafter finished with Minimum 50 mm thick..... Technical requirements of prefabricated insulated metal sandwich panels/decking sheets shall be same as given elsewhere in this specification.	Technical requirements of prefabricated insulated metal sandwich panels/decking sheets shall be same as given elsewhere in this specification. <b>For Elevator Machine Room other than Boiler Elevator Machine Room, Technical requirements shall be same as specified in Clause no 9.14 of Sub Section D-1-9, Section VI Part B of this specification.</b>
<b>D3-09</b>	VI/B	D-1-5	<b>5.06.01</b>	<b>37 OF 86</b>	The civil works for FGD system shall comprise of civil, structural and architectural works below and above ground level of FGD control room building, slurry re-circulating pumps & oxidation blowers building, tank foundations, absorber tower foundation, MCC building, gypsum dewatering building, transformer foundation, equipment foundations, pipe & cable gallery/trestles, drainage, sanitation, water supply (from terminal points to various buildings/facilities) and all other civil, structural and architectural works associated with the complete FGD system specified elsewhere in this specification. Bidder may also refer terminal points & exclusions in this regard.	The civil works for FGD system shall comprise of civil, structural and architectural works below and above ground level of <b>Ball mill building, Ball mill foundations</b> , FGD control room building, slurry re-circulating pumps & oxidation blowers building, tank foundations, absorber tower foundation, MCC building, gypsum dewatering building, transformer foundation, equipment foundations, pipe & cable gallery/trestles, drainage, sanitation, water supply (from terminal points to various buildings/facilities) and all other civil, structural and architectural works associated with the complete FGD system specified elsewhere in this specification. Bidder may also refer terminal points & exclusions in this regard.

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<b>D3-10</b>	VI/B	D-1-5	<b>5.06.02</b>	<b>37 OF 86</b>	Buildings for FGD System FGD System may comprise of various buildings based on the functional requirement viz. MCC/Control room building, Gypsum dewatering building, re-circulating pumps & oxidation blowers building, Gypsum storage shed etc.	Buildings for FGD System FGD System may comprise of various buildings based on the functional requirement viz. <b>Ball Mill Building</b> , MCC/Control room building, Gypsum dewatering building, re-circulating pumps & oxidation blowers building, Gypsum storage shed etc.
<b>D3-11</b>	VI/B	D-1-5	<b>5.06.02.02</b>	<b>37 OF 86</b>	<b>Not used</b>	<b>Limestone Grinding System building/Ball Mill building:</b> <b>This shall be steel framed building with R. C. C. roof and floor. For steel building roof /floors shall comprise of RCC slab over profiled metal deck sheets (to be used as permanent shuttering only over structural beams). Cladding shall be of single skin metal sheeting or brickwork/concrete block work with plastering on both sides. Roof shall be provided with roof water proofing treatment, as specified elsewhere in the Technical specification.</b>
<b>D3-12</b>	VI/B	D-1-5	<b>5.06.03</b>	<b>37 OF 86</b>	Booster Fan foundations: Fan foundations shall be RCC block foundation directly resting on virgin soil/ pile below Ground level. The vertical faces of this block foundation shall be isolated from adjacent footings by providing minimum 100mm thick polystyrene board of type-1 conforming to IS: 4671 with	Booster Fan <b>and Ball Mill</b> foundations: Fan foundations shall be RCC block foundation directly resting on virgin soil/ pile below Ground level. The vertical faces of this block foundation shall be isolated from adjacent footings by providing minimum 100mm thick polystyrene board of type-1 conforming to IS: 4671 with density 20 kg/cum sandwiched between the vertical face of block foundation and 230 thick brick wall all round.

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					<p>density 20 kg/cum sandwiched between the vertical face of block foundation and 230 thick brick wall all round.</p> <p>ii) Design Concept:</p> <p>a) For the foundations of Fans etc. detailed static and dynamic analysis shall be done.</p> <p>b) Wherever block foundation is adopted by the bidder for FAN foundations, suitable provisions to be ensured by the bidder in their General Arrangement and design to prevent transmission of vibration from these machine foundations to other nearby structures / foundations.</p> <p>The bidder or his consultant should have adequate prior experience in design of machine foundations and the machines should be in successful operation for at least one year prior to the date of submission of bid.</p>	<p>ii) Design Concept:</p> <p>a) For the foundations of Fans, <b>Mills</b> etc. detailed static and dynamic analysis shall be done.</p> <p>b) Wherever block foundation is adopted by the bidder for <b>Mill or</b> FAN foundations, suitable provisions to be ensured by the bidder in their General Arrangement and design to prevent transmission of vibration from these machine foundations to other nearby structures / foundations.</p> <p>The bidder or his consultant should have adequate prior experience in design of machine foundations and the machines should be in successful operation for at least one year prior to the date of submission of bid.</p>
<b>D3-13</b>	VI/B	D-1-5	<b>5.10.00</b>	<b>40 OF 86</b>	<p>Roads</p> <p>All roads shall be of rigid pavements unless otherwise specified. Rigid pavements shall be constructed with Geopolymer concrete. Concrete road/pavement or rigid pavement, mentioned</p>	<p>Roads</p> <p>All roads shall be of rigid pavements unless otherwise specified. Rigid pavements shall be constructed with Geopolymer concrete. Concrete road/pavement or rigid pavement, mentioned in specification, shall mean road.....</p>

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					<p>in specification, shall mean road.....</p> <p>All service and utility lines like fire water line, sewerage line, electric cables line etc. crossing the road shall be taken through NP3 class RCC Hume pipe. Hume pipe shall be laid before road work so that the road shall not be damaged.</p> <p>Construction of road work shall be as per priorities given in Tender drawing 'Layout of Road Drawing'.</p>	<p>All service and utility lines like fire water line, sewerage line, electric cables line etc. crossing the road shall be taken through NP3 class RCC Hume pipe. Hume pipe shall be laid before road work so that the road shall not be damaged.</p> <p><b>Turning Circle radius adequate for 16 Wheel Truck shall be provided at all relevant points including approach (Entry/Exit) and access road for Truck movement at loading/unloading/weighment facilities of Limestone, Gypsum, Ash, Biomass for efficient and safe movement of truck.</b></p> <p>Construction of road work shall be as per priorities given in Tender drawing 'Layout of Road Drawing'.</p>
<b>D3-14</b>	VI/B	D-1-5	<b>5.23.00</b>	<b>66 OF 86</b>	COAL, BIO MASS & GYPSUM HANDLING SYSTEM.....	COAL, <b>LIME STONE</b> , BIO MASS & GYPSUM HANDLING SYSTEM.....
<b>D3-15</b>	VI/B	D-1-5	<b>5.23.16</b>	<b>75 OF 86</b>	<p>Biomass Storage Silo</p> <p>The supporting structure for silo shall be of structural steel. Enclosure with side metal cladding is to be provided above biomass Storage Silos for biomass handling equipment. Side metal cladding is also to be provided for outgoing conveyors below biomass storage silos.</p>	<p><b>Limestone and Biomass Storage Silo</b></p> <p>The supporting structure for silo shall be of structural steel. Enclosure with side metal cladding is to be provided above <b>Limestone</b>/biomass Storage Silos for <b>limestone</b>/biomass handling equipment. Side metal cladding is also to be provided for outgoing conveyors below <b>limestone</b>/biomass storage silos.</p> <p>Stored <b>Limestone</b>/biomass load shall be treated as dead load for analysis and design of silo supporting structure.</p>

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