

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.		
D3-01	Amendme nt no 2 to Technical specificat ion. D2-16		TENDER DRAWINGS		9587-999-POC-F-001-Rev-A	9587-999-POC-F-001-Rev-B
					9587-999-POC-F-002-Rev-A Sheet 1	9587-999-POC-F-002-Rev-B Sheet 1
					9587-999-POC-F-002-Rev-A Sheet 2	9587-999-POC-F-002-Rev-B Sheet 2
					9587-001-POC-A-003-Rev-A	9587-001-POC-A-003-Rev-B
					9587-001-POC-A-004-Rev-A	9587-001-POC-A-004-Rev-B
					9587-001-POC-A-005-Rev-A	9587-001-POC-A-005-Rev-B
					9587-001-POC-A-06-Rev-A	9587-001-POC-A-06-Rev-B
D3-02	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. Further, bidder to note that this 75 acres of land shall be converted into reservoir by bidder. 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. 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. Fencing of the laydown area in the area marked for laydown is also in Bidder's Scope
D3-03	VI/A	IID	1.00.00	3 OF 8	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 and lime stone handling system and DeNOx system.
D3-04	VI/A	IID	1.00.00	3 OF 8	10 i) RCC pedestals for ash slurry disposal pipes lines inside plant boundary	10 i) RCC pedestals for ash slurry disposal and Ash water recirculation pipes inside plant boundary

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D3-05	VI/A	IID	1.00.00	4 OF 8	19. Coal, Bio mass and Gypsum Handling Plant All civil, structural & 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.	19. Coal, Limestone, Bio mass and Gypsum Handling Plant All civil, structural & architectural works associated with coal, Lime stone and Gypsum handling plant, i.e. track hopper, transfer points, crusher houses, overhead/ground conveyor galleries, tunnels for conveyor galleries, Limestone and 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.
D3-06	VI/A	IID	1.00.01	4 OF 8	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	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, lime storage silos, 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 & ESP

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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, lime stone 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.
D3-07	VI/B	D-1-5	4.01.00	1 OF 4	b) Face of the buildings and facilities are located in such a way so as to have an offset of minimum 15 to 20m with respect to center line of road.	Face of the buildings and facilities are located in such a way so as to have an offset of minimum 15m with respect to center line of double lane road and 12 meter with respect to center line of single lane road.
D3-08	VI/B	D-1-5	5.02.04 ii	6 OF 86	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. 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.
D3-09	VI/B	D-1-5	5.06.01	37 OF 86	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 Ball mill building, Ball mill foundations , 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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D3-10	VI/B	D-1-5	5.06.02	37 OF 86	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. Ball Mill Building , MCC/Control room building, Gypsum dewatering building, re-circulating pumps & oxidation blowers building, Gypsum storage shed etc.
D3-11	VI/B	D-1-5	5.06.02.02	37 OF 86	Not used	Limestone Grinding System building/Ball Mill building: 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.
D3-12	VI/B	D-1-5	5.06.03	37 OF 86	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 and Ball Mill 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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					density 20 kg/cum sandwiched between the vertical face of block foundation and 230 thick brick wall all round. ii) Design Concept: a) For the foundations of Fans etc. detailed static and dynamic analysis shall be done. 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. 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.	ii) Design Concept: a) For the foundations of Fans, Mills etc. detailed static and dynamic analysis shall be done. b) Wherever block foundation is adopted by the bidder for Mill or 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. 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.
D3-13	VI/B	D-1-5	5.10.00	40 OF 86	Roads 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	Roads 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.....

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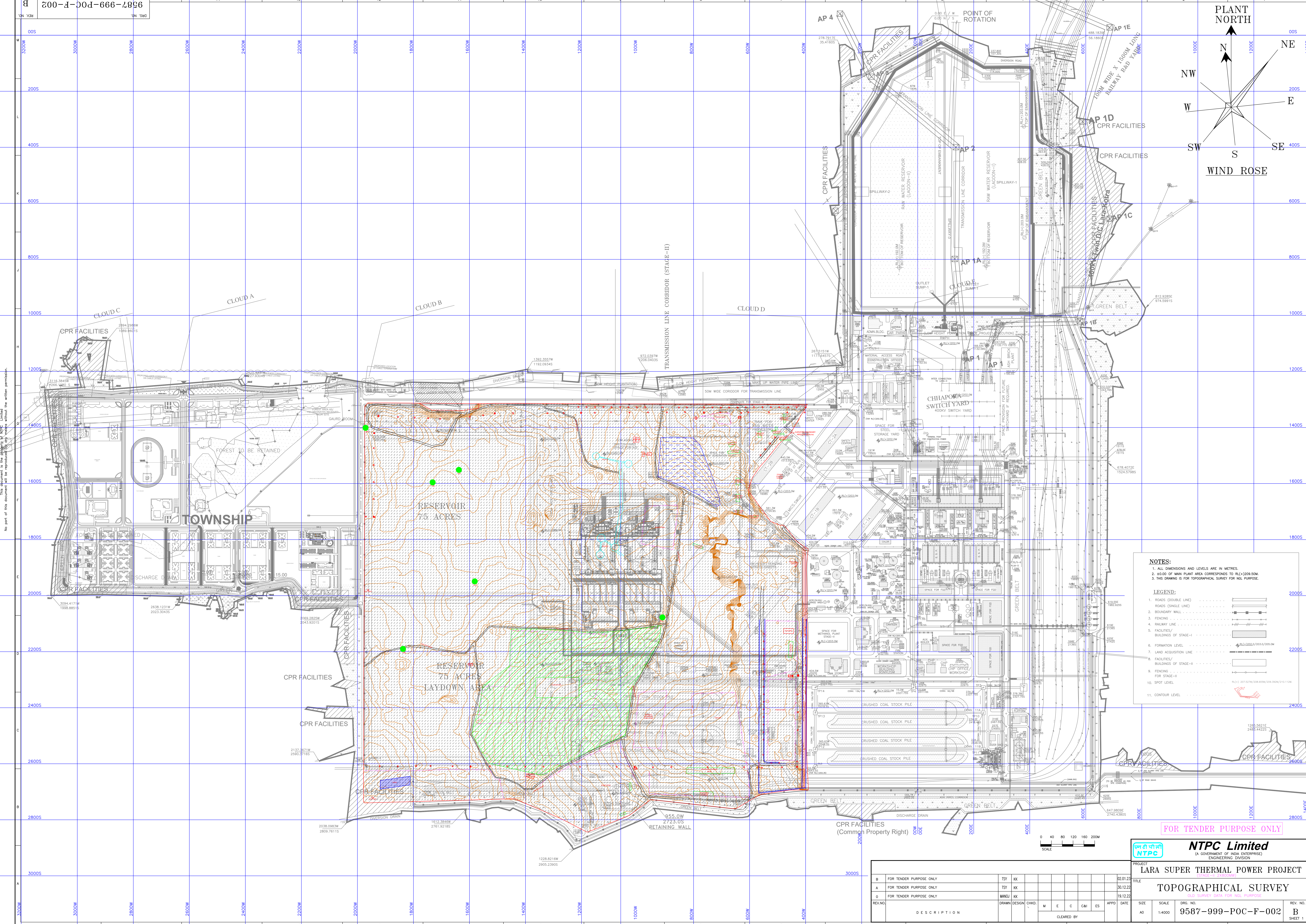
S. No.	SPECIFICATION REFERENCE				Instead of	Read as
	Section Part	Sub-Section	Clause No.	Page No.		
					in specification, shall mean road..... All service and utility lines like fire water line, sewerage line, electric cables line etc. crossing the road shall be taken through NP3 class RCC Hume pipe. Hume pipe shall be laid before road work so that the road shall not be damaged. Construction of road work shall be as per priorities given in Tender drawing 'Layout of Road Drawing'.	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. 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. Construction of road work shall be as per priorities given in Tender drawing 'Layout of Road Drawing'.
D3-14	VI/B	D-1-5	5.23.00	66 OF 86	COAL, BIO MASS & GYPSUM HANDLING SYSTEM.....	COAL, LIME STONE , BIO MASS & GYPSUM HANDLING SYSTEM.....
D3-15	VI/B	D-1-5	5.23.16	75 OF 86	Biomass Storage Silo 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.	Limestone and Biomass Storage Silo The supporting structure for silo shall be of structural steel. Enclosure with side metal cladding is to be provided above Limestone/biomass Storage Silos for limestone/biomass handling equipment. Side metal cladding is also to be provided for outgoing conveyors below limestone/biomass storage silos. Stored Limestone/biomass load shall be treated as dead load for analysis and design of silo supporting structure.

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					Stored biomass load shall be treated as dead load for analysis and design of silo supporting structure.	
D3-16	VI/B	D-1-5	5.23.29	83 OF 86	VIBRATION ISOLATION SYSTEM These specifications are meant for the design, supply and erection of vibration isolation system for supporting coal crushers. Supporting Arrangement • The crushers shall be The Contractor should do the Engineering / design, supply and erection of vibration isolation system consisting of steel helical spring units and viscous dampers supporting the top deck which in turn would support the coal crushers. The vibrations isolation system supplied shall.....	VIBRATION ISOLATION SYSTEM These specifications are meant for the design, supply and erection of vibration isolation system for supporting coal/limestone crushers. Supporting Arrangement • The crushers shall be The Contractor should do the Engineering / design, supply and erection of vibration isolation system consisting of steel helical spring units and viscous dampers supporting the top deck which in turn would support the coal/limestone crushers. The vibrations isolation system supplied shall.....

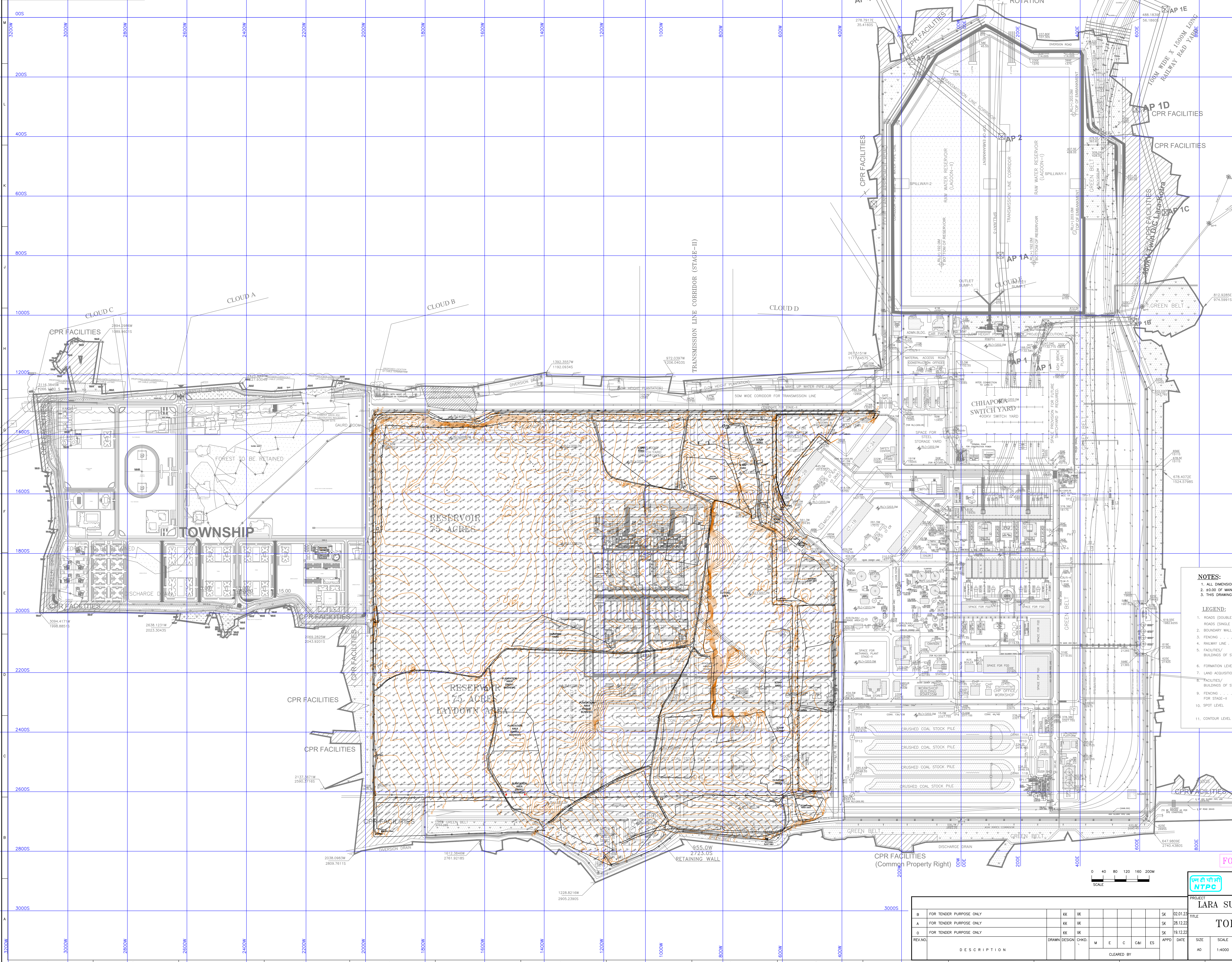
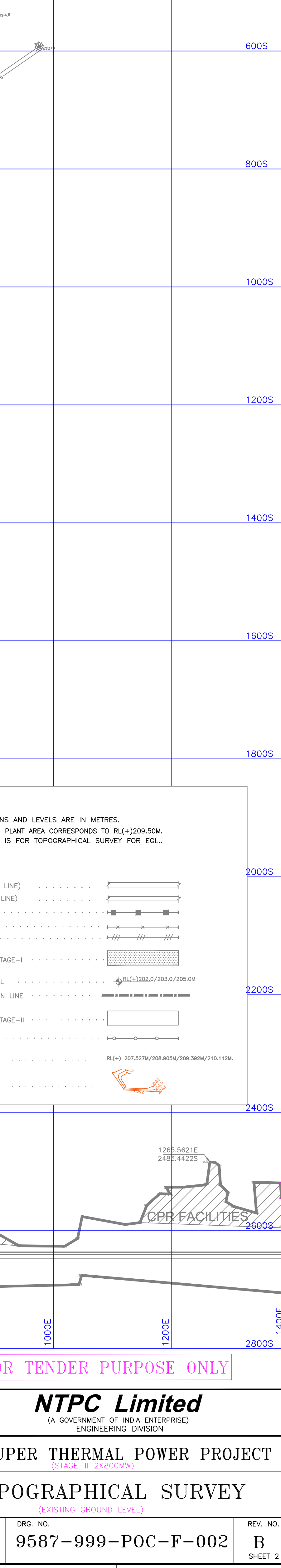
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- NOTES:**
1. ALL DIMENSIONS AND LEVELS ARE IN METRES.
 2. ± 0.00 OF MAIN PLANT AREA CORRESPONDS TO RL+209.50M.
 3. THIS DRAWING IS FOR TOPOGRAPHICAL SURVEY FOR NCL PURPOSE.
- LEGEND:**
- 1. ROADS (DOUBLE LINE)
 - 2. ROADS (SINGLE LINE)
 - 3. BOUNDARY WALL
 - 4. RAILWAY LINE
 - 5. FACILITIES/ BUILDINGS OF STAGE-I
 - 6. FORMATION LEVEL
 - 7. LAND ACQUISITION LINE
 - 8. FACILITIES/ BUILDINGS OF STAGE-II
 - 9. FENCING
 - 10. SPOT LEVEL
 - 11. CONTOUR LEVEL

FOR TENDER PURPOSE ONLY									
NTPC Limited (A GOVERNMENT OF INDIA ENTERPRISE) ENGINEERING DIVISION									
PROJECT LARA SUPER THERMAL POWER PROJECT									
TITLE TOPOGRAPHICAL SURVEY									
OLD SURVEY DATA FOR NCL PURPOSE									
REV. NO.	DESCRIPTION	DRAWN	DESIGN	CHKD.	M	E	C	C&I	ES
CLEARED BY									
REV. NO.	DESCRIPTION	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
A	FOR TENDER PURPOSE ONLY	TSY	KK						02.01.23
B	FOR TENDER PURPOSE ONLY	TSY	KK						30.12.22
C	FOR TENDER PURPOSE ONLY	MANUJ	KK						18.12.22
SIZE SCALE DRG. NO. REV. NO.									
AD	1:4000	9587-999-POC-F-002	B	SHEET 1					



TOPOGRAPHICAL SURVEY
(EXISTING GROUND LEVEL)

PROJECT
LARA SUPER THERMAL POWER PROJECT
(STAGE-I (2800MW))

TOPOGRAPHICAL SURVEY

SIZE: SCALE: DNG. NO.:
A/D 1:4000 9587-999-POC-F-002

														ENGINEERING DIVISION													
														PROJECT LARA SUPER THERMAL POWER PROJECT (PAGE-11 OF 30) (REV)													
														TITLE TOPOGRAPHICAL SURVEY (EXISTING GROUND LEVEL)													
A FOR TENDER PURPOSE ONLY														DRAWN	DESIGN	CHKD.	M E C K&I ES			APPD	DATE	SIZE	SCALE	DRG. NO.	REV. NO.		
B FOR TENDER PURPOSE ONLY																											
C FOR TENDER PURPOSE ONLY																											
D FOR TENDER PURPOSE ONLY																											
REV. NO.																											
DESCRIPTION																											
														CLEARED BY													
														A0 1:4000 9587-999-POC-F-002 B SHEET 2													



															PROJECT NO.		LARA SUPER THERMAL POWER PROJECT									
															DATE		28.12.22									
															TITLE		SITE LEVELLING PLAN									
															SCALE		1:4000									
															DRG. NO.		9587-001-POC-A-003									
															REV. NO.		B									



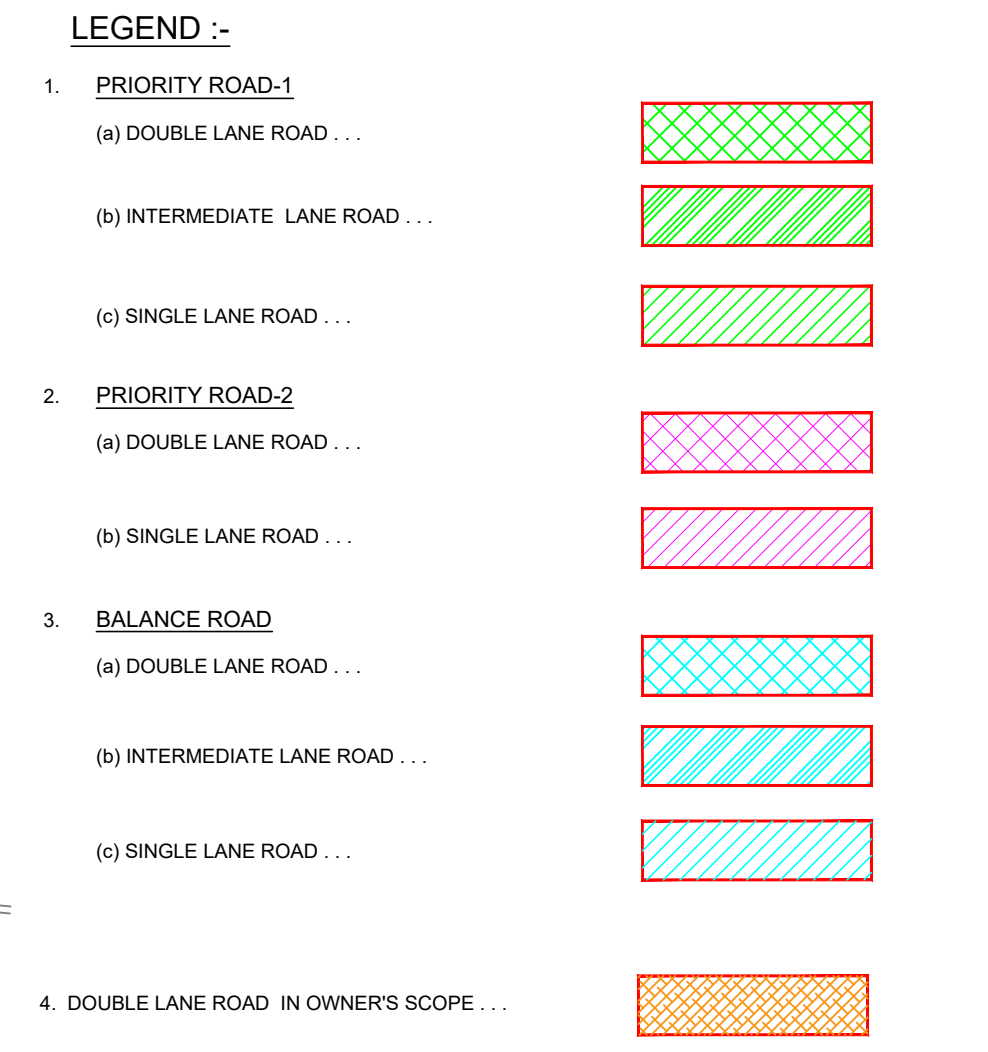
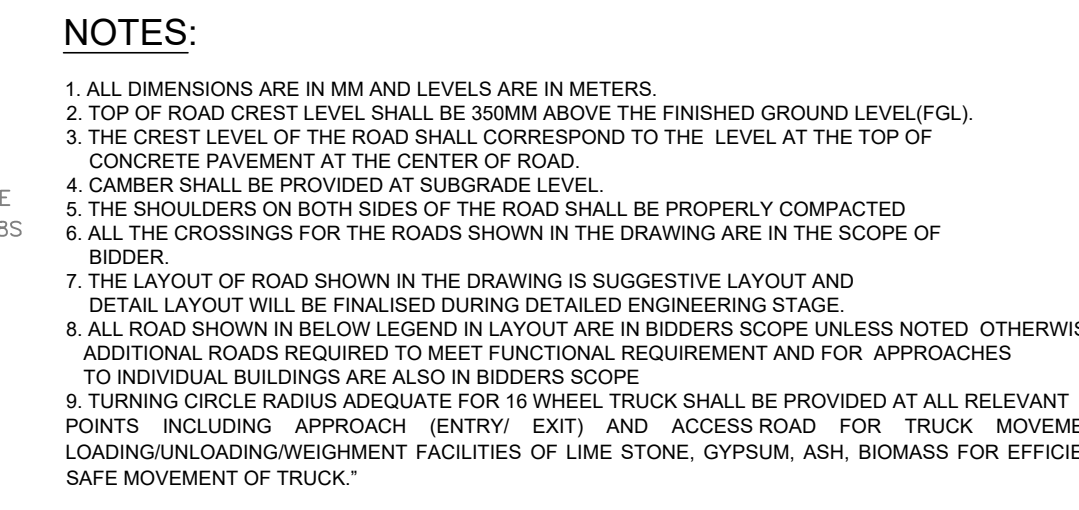
NOTES:

1. ALL DIMENSIONS ARE IN MM, LEVELS AND COORDINATES ARE IN METRES, UNLESS NOTED.
2. FORMATION LEVELS OF VARIOUS BLOCKS IS AS SHOWN IN THE DRAWING.
3. THIS DRAWING IS FOR REFERENCE PURPOSE ONLY.
4. EXCAVATION WORK BACK FILLING, LAYING OF VARIOUS LAYERS OF LEVEL (FGL).
5. THE SURROUNDING GROUND SHALL BE ADEQUATELY SLOPED TOWARDS THE ADJACENT DRAIN SUITABLY.
6. DRAIN LAYOUT IS BASED ON GENERAL LAYOUT PLAN DRAWING NO. 9257-999-POC- LATEST AS ON DATE.
7. DRAINS CONSTRUCTION SHALL BE DONE AS PER DETAIL DRAWING OF DRAINS.
8. DISMANTLING & REROUTING OF TRUNK DRAIN (TD-D2) IS IN BOLDER SCOPE.

LEGEND:

1. CATCH DRAIN		
2. ROADS (DOUBLE LANE)		
3. ROADS (SINGLE LANE)		
4. RCC CULVERT'S		

		NTPC Limited (A CORPORATION OF INDIA ENTERPRISE) ENGINEERING DIVISION	
PROJECT		LARA SUPER THERMAL POWER PROJECT	
TITLE		LARA SUPER THERMAL POWER PROJECT	
DATE		LAYOUT OF DRAIN'S	
SIZE	SCALE	DRG. NO.	REV. NO.
AO	1:40000	9587-001-POC-A-004	B



FOR TENDER PURPOSE ONLY

	NTPC Limited (A GOVERNMENT OF INDIA ENTERPRISE) ENGINEERING DIVISION			
	PROJECT LARA SUPER THERMAL POWER PROJECT (P.O. No. 100/10000)			
TITLE LAYOUT OF ROADS				
SIZE	SCALE	DRG. NO.		REV. NO.
A0	1:40000	9587-001-POC-A-005		B

B	RELEASED FOR TENDER PURPOSE ONLY	TSY	KK	VK						SK	02.01
A	RELEASED FOR TENDER PURPOSE ONLY	TSY	KK	VK						SK	28.12
O	RELEASED FOR TENDER PURPOSE ONLY	MANU	KK	VK						SK	25.09
REV.NO.		DRAWN	DESIGN	CHKD.	M	E	C	C&I	ES	APPD	DATE
	D E S C R I P T I O N				C L E A R E D B Y						



TYPICAL CROSS SECTION OF DOUBLE LANE ROAD
(WITH RAISED SHOULDERS)



TYPICAL CROSS SECTION OF INTERMEDIATE LANE ROAD
(WITH RAISED SHOULDERS)



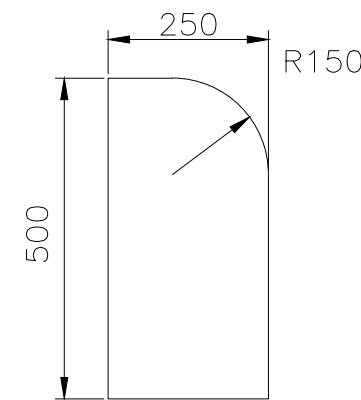
DETAIL- 'A'



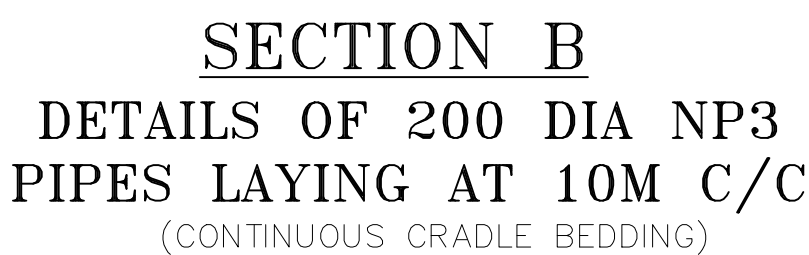
DETAIL-‘B’



TYPICAL CROSS SECTION OF SINGLE LANE ROAD
(WITH FLAT SHOULDERS)



DETAILS OF KERB BLOCK



SECTION B
DETAILS OF 200 DIA NP3
PIPES LAYING AT 10M C/C
(CONTINUOUS CRADLE BEDDING)



NOTES

1. ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN METRES.
2. TOP OF ROAD CREST LEVEL SHALL BE 350MM ABOVE THE FINISHED GROUND LEVEL(FGL).
3. THE CREST LEVEL OF THE ROAD SHALL CORRESPOND TO THE LEVEL AT THE TOP OF CONCRETE PAVEMENT AT THE CENTRE OF ROAD.
4. CAMBER SHALL BE PROVIDED AT SUBGRADE LEVEL.
5. ALL EXCAVATION WORK, BACK FILLING, LAYING OF VARIOUS LAYERS OF ROAD CONSTRUCTION SHALL BE AS PER TECHNICAL SPECIFICATIONS.
6. NO MATERIAL WITH CBR VALUE LESS THAN 100% SHOULD BE USED IN BASE CONSTRUCTION.
7. THE SHOULDERS ON BOTH SIDES OF THE ROAD SHALL BE PROPERLY COMPACTED.
8. ROAD CONSTRUCTION SHALL BE DONE AS PER DETAIL DRAWING OF ROAD.
9. CONCRETE SHALL BE OF GRADE M25 FOR DRAINS AND CULVERTS AS PER IS: 456-2000.
10. CONCRETE MENTIONED IN ROAD PAVEMENT SHALL BE READ AS GEO-POLYMER CONCRETE

REFERENCE DRAWING

1. 9587-999-POC-F-001 TITLED 'GENERAL LAYOUT PLAN'
2. 9587-001-POC-A-005 TITLED 'LAYOUT OF ROADS'

FOR TENDER PURPOSE ONLY

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NTPC Limited
(A GOVERNMENT OF INDIA ENTERPRISE)
ENGINEERING DIVISION

LARA SUPER THERMAL POWER PROJECT
(STAGE-II 2X800MW)

DETAIL'S OF ROADS

9587-001-POC-A-06

EV. NO
B