

Sl No	Description of Plant Building	Whether included in CHP Bidder's scope	Type of Structure/ Tentative Plan area revised requirement. (minimum)	Remarks
1	Receiving pit	Yes	RCC	
2	Elevated table of compacted earth (dumper platform size 120x45 meter with RCC paving)	Yes	RCC	
3	Crusher & sizer house	Yes	RCC	
4	30,000 T capacity overground bunker	Yes	RCC	
5	Coal sampling unit	Yes	RCC	Mounted at conveyor gallery for necessary sample collection and thereafter crushing stage-wise to required sample size
6	RLS (Rapid Loading System) 1 & 2	Yes	Steel, No of Floors -4	2 Nos. R.C.C foundation, R.C.C floor, Roof & side cladding by CGI Sheeting with elevator
7	Transfer houses (TH)	yes	Steel	R.C.C foundation, R.C.C floor, Roof & side cladding by CGI Sheeting
8	Coveyor gallery & trestles	Yes	Steel	RCC foundations for Trestles.
9	Fire station building	Yes	RCC- Single storied. 24 m x 12 m	Capable for 2 Nos. of fire tender, office, rest room, electrical panel room, pantry, toilet etc.
10	Compressor House	Yes	RCC- Single storied. 15 m x 12 m	
11	CHP mainteneance shop	Yes	RCC- Single Storied. 50 m x 20 m	All types of maintenance work (Mech. Elc. C&I, M/C Shop, store for tool room, spares, lockers facility etc.)
12	Potable Water treatment plant (WTP), reservoir and Pump house	Yes	RCC	Separate pumping arrangement shall be provided for Drinking water supply to Colony, along with associated road and rail crossing.
13	Service water/ fire water resorvoir and pump house	Yes	RCC. 80 m x 60 x 2.5 ht	Storage Capacity : 12.000 cum
14	Overhead water tank ( potable water)	Yes	RCC	30 m <sup>3</sup> capacity at a height of 25 m.
15	Recovery Water Pump house & Chemical Treatment Units ( 02 nos.)	Yes	RCC	

16	Settling pond 1 & 2	Yes	RCC (20 x 45 x 4 meter) FOR Settling Pond-1  RCC (2400 Sq. Mtr) for Settling Pond-2	Sucessful bidder shall do the detail engineering design.
17	In plant road, drain & culverts	Yes	Bitumen & RCC	
18	CHP Store shed & store Office	Yes	Store shed-Steel, 40 m x 20 m Office -RCC ; 12 m x 8 m	Office-Two rooms with a lobby and toilet facility.
19	Rest Shelter	Yes	RCC	For 20 persons with toilet facility.
20	CHP main substation & Control Room Building	Yes	RCC- Two storied. 30 m x 20 m	G+ 1 ( Cable cellar room , Substation & CCR)
21	CHP office	Yes	RCC - Two Storied. 25 m x 20 m.	For sitting arrangement of CHP O & M personnel. DCPL to provide revised tender drawing.
22	RLS substation	Yes	RCC	
23	Receiving pit substation	Yes	RCC	
24	Mining substation	Yes	RCC	
25	DG room	Yes	RCC- Single storied. 24 m x 12 m	
26	02 Bridges over Garia nala ( For passing of 100 T payload dumpers)	Yes	RCC	Approx width of nala- 30 m. and HFL is 241.00
27	Laboratory for Coal analysis	Yes	RCC	Laboratory equipments are not in Bidder's scope. Size of the room will be 8m x 12m
28	Weigh Bridge (Truck)	Yes	Pit less 100 MT	02 numbers with common control room
29	Rain water harvesting pond	Yes	4500 cum	As described in additional note ( separate tab)
30	Transformer & DG room for Administrative Building cum CEO Office	Yes		It's a part of Administrative Building cum CEO Office

SI No	Description of Non-Plant Building	Whether included in CHP Bidder's scope	Type of Structure/ Tentative Plan area revised requirement. (minimum)	Remarks
1	Main-gate	Yes	Steel	8 mtr width with additional 1.5 mtr height man entry on both side
2	Bridge over railway track (RoB)	Yes	RCC	2 Nos. as shown in revised Plot plan
3	Time & security office	Yes	RCC- Single Storied. 20 m x 16 m	Two rooms with a lobby and toilet block.
4	Security barack	Yes	RCC	Security Barrack for 50 security personnel with toilet & kitchen.
5	Canteen	Yes	RCC- Single Storied.	Seating capacity for 80 persons. Beside main dining hall kitchen, store, wash room, toilet etc shall be provided.
6	Two-wheeler & car parking shed	Yes	RCC	Suitable for Parking 20 nos. of cars and 50 nos of two wheelers.
7	Boundary wall	Yes	RCC framed structure boundry wall with fly ash brick in between for Administrative building cum CEO Office.	Height of boundry wall will be 1600 mm above plinth. Concertina wire ( 1 m height) shall be provided on top of the boundary wall. The extent of boundary wall shall be as shown in the revised plot plan.
8	First-aid room	Yes	RCC - Single storied with Ambulance shed. 12 m x 12 m	Doctor's chamber, Patient waiting, lobby, toilet block
9	Training center	Yes	RCC	Capacity Suitable For 40 person.
10	Watch tower	Yes	Steel	Steel, suitable for 02 watch man
11	Security office (Receiving pit)	Yes	RCC - Single storied . 8 m x 4 m.	
12	Administrative building cum CEO Office	Yes	RCC- Two Storied. 55 m x 35 m	For 70 persons, Officer's cabin office lobby, conference hall, seminar hall, training hall, pantry, toilet block etc

13	Potable water pipe line to mining colony and associated rail and road crossing.			Approximately 800m potable water pipeline with suitable pumping arrangement is in the scope of Bidder. The pipeline shall be 100 NB size galvanised Pipe to IS:1239: Part-1: Heavy Grade. Approximate discharge head is 40 m. Two pumps (1 W + 1 S) of 60 cum/hr capacity shall be installed in the Potable Water Pump house to meet the above requirement. Electrical and other required facilities to install and run the pumps shall be provided by the Bidder. The pipeline shall cross bitumen roads at four places and a railway line at one place and the pipe will be laid underground. Bidder shall provide necessary arrangement for these road and rail crossings, as directed by the EIC. Source of water is Potable Water Tank.
14	Barbed wire fencing around water reservoir	Yes	Barbed wire fencing with RCC posts and gate	For extent of fencing refer revised plot plan.
15	Barbed wire fencing around bulb area and Substaion Buildings	Yes	Barbed wire fencing with RCC posts.	For extent of fencing refer revised plot plan.
16	Box culvert of internal size of 4m X 4m below rail track	Yes	RCC	It has been indicated in revised plot plan
17	Box culvert of internal size of 4m X 4m below haul road	Yes	RCC	It has been indicated in revised plot plan

Additional Notes		
SI No		Description
A		<b>General: -</b>
1		Two(2) numbers RCC bridge of width of 9.0 mtr for plying of 100 Tonne pay load dumpers is to be constructed over garia nallah( approx 30.0 m width) as shown in Revised Plot Plan. Exact locations sha be decided during detail Engineering stage.
2	2.1	Drainage: - Separate drains shall be constructed for draining of two type of waters independently as mentioned below: a) Storm water b) Storm water & service water mixed with coal particles
	2.2	Storm water collected from garland drains shall be routed through main drain to rain water harvesting pond. Overflow water from rain water harvesting pond shall be discharged through culverts. Side slopes and bottom of drains shall be provided with suitable permanent protection work.
	2.3	Water collected from areas where storm water and service water may get mixed with coal particles (i.e type b above), shall be collected through separate drains. These drains shall discharge water to settling ponds. Overflow water from settling ponds shall be stored in a separate RCC chamber and shall be re-used after treatment for dust suppression with some suitable pumping arrangement.
	2.4	These two types of drains should not get linked anywhere. However, provision should be made to discharge overflow water from settling pond to nearest nallah.
3		Two Pitless type weighbridge of 100 MT having dimension of 16m Length and 3m Width, along with its control room is in the scope of Bidder.
4		Coal loading yard/ wharf wall of size 700m X 40m as shown in the plot plan is not in the scope of Bidder.
5		A rain water harvesting pond of capacity 6000 cum is in the scope of Bidder. The pond shall be constructed underground with overground bund of 1.2 m for safety purpose. Total capacity shall be measured for the underground portion only. The bottom and side slopes shall be protected with permanent stone pitching.
6		Approximately 800m potable water pipeline with suitable pumping arrangement, is in the scope of Bidder. The pipeline shall be 100 NB size galvanised Pipe to IS:1239: Part-1: Heavy Grade. Approximate discharge head is 40 m. Two pumps (1 W + 1 S) of 60 cum/hr capacity shall be installed in the Potable Water Pump house to meet the above requirement. Electrical and other required facilities to install and run the pumps shall be provided by the Bidder. The pipeline shall cross bitumen roads at four places and a railway line at one place and the pipe will be laid underground. Bidder shall provide necessary protections/arrangement for these road and rail crossings, as directed by the EIC. Source of water is Potable Water Tank.
7		Grading level of CHP has been indicated in the revised plot plan.
8		Bidder shall provide and install all the road signages and signages for plant and non-plant structures. Centreline and both side edge marking with retro-reflective type thermoplastic paint on bitumen roads is in Bidder's scope.
		<b>Civil:</b>
1		Minimum grade concrete for all RCC work shall be M25. However, higher grades, if required, during detail engineering shall be adopted as per design requirement.
2		Thickness of different layers of roads as specified anywhere in the bid document is the minimum requirement. However Bidder shall design the actual thickness as per design requirement or as directed by EIC during detail
3		Specifications for sheet claddings in clause No. 4.00.00 (7) of document 13L16-CHP-Vol-IIC1-S-4 shall be applicable for roof sheeting also. However design and colour shall be approved by the owner before installation.
4		Only SS hand rails as approved by the owner shall be provided in the balustrades of staircases in Administrative Building, CHP Office and Control Rooms.

5		PVC water tanks shall be provided over the roofs of buildings instead of RCC water tanks for drinking water supply, as specified elsewhere in the bid document.
6		Clear glass if approved by the owner to provide at any place in the glazed sections during detail engineering should have a provision of providing sunfilm on them upon requirement in the latter stage, within the contract period.
7		Bidder shall provide certificate of warantee/ guarantee for all painting works from the manufacturer of the paint.
8		Rain water downcommer pipes shall be HDPE pipes minimum 100 mm dia.
9		Wash basin: Counter type wash basin in Admin Building cum CEO's Offiec, CHP Office & Control Room and wall hang wash basin with brackets in other areas to be provied.
10		Two number of RCC bridges (RoB) over the railway track (As per RDSO guidelines) for movement of heavy vehicles including approaches is in the scope of Bidder. Approx. Location of the bridges are shown in the revised plot plan. Width of the bridges shall be 9 m.
11		Two RCC box culverts of internal size of 4m X 4m is in the scope of Bidder. One culvert shall be constructed below rail track and the other below haul road.
12		Complete electrification for all plant & non-plant buildings is in Bidder's scope. The electrical lay-out of all buildings shall be prepared by the successful Bidder & submitted to the Owner for approval during detail
13		Administartive Building shall be read as Administrative Building cum CEO office
14		List of Plant and non-plant buildings and their nomenclatures shall be as per the latest plot plan. The technical specifications shall be read in conjunction with the revised plot plan.
15		First aid room is to be constructed which includes Ambulance shed with RCC roof
16		Laboratory equipments are not in Bidder's scope.
17		Barbed wire Fencing with R.C.C. posts placed at required distance with minimum 2.1 meter height from ground level, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be struttred on both sides and end post one side only, provided with horizontal lines and two diagonals of barbed wire weighing 9.38 kg per 100 metres (minimum), between the two posts fitted and fixed with G.I. staples on wooden plugs or G.I. binding wire tied to 6 mm bar nibs fixed while casting the post , complete as per tender drawing, specification and direction of the EIC.
18		Construction of effluent treatment plant is not in Bidder's scope. But rainfall runoff water and service water mixed with coal particles shall be collected to settling tanks. The water from settling tanks shall be treated for re-use in dust suppression as per clause No. 22.00.00 of vol. II B, Sec-1.