

# **TENDER SPECIFICATION**

**BHEL:PSSR:SCT: 1273**

**FOR**

Construction of 1 No Office Building of size 12 M x 32 M , 2 Nos of Stores Shed of Size 15 M x 60 M, Repairing of existing 5 Nos stores, Storage yard development, approach road, fencing and other connected civil works

**at**

**SIMHADRI SUPER THERMAL POWER PROJECT  
STAGE –II  
NTPC  
VISAKHAPATNAM , ANDHRA PRADESH**

**PART – II PRICE BID**

**BOOK NO :**



**BHARAT HEAVY ELECTRICALS LIMITED**

(A Government of India Undertaking)

Power Sector – Southern Region

690, Anna Salai, Nandanam, Chennai – 600 035.



## **Bharat Heavy Electricals Limited**

(A Govt. of India Undertaking)  
Power Sector – Southern Region  
EVR Periyar Building  
690 , Anna Salai, Nandanam, Chennai – 600 035.

TENDER SPECIFICATION NO:BHEL:PSSR:SCT:1273

### NAME OF WORK

Construction of 1 No Office Building of size 12 M x 32 M , 2 Nos of Stores Shed of Size 15 M x 60 M, Repairing of existing 5 Nos stores, Storage yard development, approach road, fencing and other connected civil works at 2 x 500 MW Simhadri Super Thermal Power station, Visakhapatnam, Andhra pradesh.

(PRICE BID)

PART II

Issued to  
M/s.

For and on behalf of  
BHARAT HEAVY ELECTRICALS LIMITED

Additional General Manager/Contracts

(This tender document is not transferable)

Place: Chennai-600 035.

Date:

**Section –VII - Appendix – V - Rate Schedule- Simhadri 2 x 500 MW**

<b>S. No</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate ( Rs )</b>	<b>Amount ( Rs )</b>
<b>PART A CIVIL WORKS</b>					
1	Earthwork excavation in all kinds of soils (except hard rock, soft disintegrated rock) and depositing within an initial lead of 50 m for foundations, sewers etc., Rate to include baling, strutting, shoring, sectioning the sub grade to proper level, grade, watering & consolidating to receive the concrete bed and refilling the foundation, basement & trenches with excavated earth and consolidating, all as per standard specifications.	900	Cum		
2	Earthwork excavation in soft disintegrated rock soft laterite, rock, kankar and soft rock not requiring blasting and depositing within an initial lead of 50 m and initial lift of 2 m for foundation, sewer lines etc. rate include baling, strutting, shoring etc., cost of sectioning the subgrade of proper level and grade, watering and consolidating to receive concrete bed and refilling the foundation, basement and trenches with excavated material all as per standard specifications. Payment will be based on pit measurements.	400	Cum		
3	Supply at site of work and filling with good river sand and compacting well with watering, ramming, for foundation and basement.	800	Cum		
4	Clearing jungle including uprooting of rank vegetation, grass, brush, wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	2500	Sqm		

Company Seal

Signature of Tenderer

**Section –VII - Appendix – V - Rate Schedule- Simhadri 2 x 500 MW**

<b>S. No</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate ( Rs )</b>	<b>Amount ( Rs )</b>
5	Providing 1.5 m high fencing with 1.95 m MS angle 50x50x6 mm posts placed every 3 m center to center embedded in cement concrete blocks 35x35x45 cm of 1:4:8 (1 cement: 4 fine sand: 8 graded stone aggregate 40 mm nominal size), every 15 <sup>th</sup> post last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with 12 horizontal lines and two diagonals inter woven with horizontal wires of barbed wire 9.38 Kg per 100 m (min) between the two posts and fixed with GI staples, turn buckles etc., complete. Rate to include cost of MS angle posts, struts, earth work, concrete, painting synthetic enamel two coats for MS angle posts and struts, labour charges etc., complete as per standard specifications.	1200	Rm		
6	Preparation of sub grade by excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with power road roller of 8 to 12 tonnes capacity including making good the undulations etc., and disposal of surplus earth lead upto 50 mtrs.	2250	Sqm		
7	Disposal of excavated earth from initial lead of 50M and lead up to 2 KM lead by transporting, dumping and levelling area as directed by Engineer in charge.	1000	Cum		

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**Section –VII - Appendix – V - Rate Schedule- Simhadri 2 x 500 MW**

<b>S. No</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate ( Rs )</b>	<b>Amount ( Rs )</b>
8	Laying of soling stones of size 225 mm thick, spreading to template and the voids shall be filled with spalls of required size and consolidating with power road roller of 8 to 12 tonnes capacity as dry rolling and finally the blinding material (moorum) shall be spreaded and consolidating with power road roller of 8 to 12 tonnes capacity as wet rolling etc., complete for hard facing having minimum compacted thickness of 230 mm thick. Rate shall include the cost of all raw materials, labour and hire charges for road roller.	4600	Cum		
9	Laying granular murrum for sub base not exceeding 150 mm after consolidation including watering, compaction with road roller required camber etc., complete. Rate shall include the cost of all raw materials, labour, and hire charges for road roller.	4600	Cum		
10	Laying water bound macadam with specified stone aggregate stone screening and blinding material (moorum) including screening, sorting, spreading to template and consolidating with power road roller of 8 to 12 tonnes capacity etc., complete. Rate shall include the cost of all raw materials, labour and hire charges for road roller				
a)	Subbase with stone aggregate 90 mm to 45 mm including stone screening (13.2 mm size).	1000	Cum		
b)	Subbase with stone aggregate 63 mm to 45 mm including stone screening (13.2 mm size).	1500	Cum		

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**Section –VII - Appendix – V - Rate Schedule- Simhadri 2 x 500 MW**

<b>S. No</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate ( Rs )</b>	<b>Amount ( Rs )</b>
11	Collection of earth from outside the project area and supplying to BHEL site, including excavation, loading, transporting, unloading, stacking, filling etc., compacting with watering, ramming etc., complete. Payment will be made based on stack measurement.	2000	Cum		
12	Providing and laying PCC of mix 1:4:8 using 40mm size hard broken granite stone jelly including ramming,levelling, curing etc., for flooring and foundations including providing necessary slopes etc., complete as per standard specifications at heights.	250	Cum.		
13	Providing random rubble masonry in C.M. 1:5 using hard granite stone of approved quality including simultaneous flush pointing as per specifications for foundation and basement.	200	Cum.		
14	Providing damp proof course (DPC) in cement concrete 1:2:4, 40 mm thick with 12 mm and down graded blue granite chips. The concrete shall be well rammed and smoothed out with trowel and when dry, two coats of hot bitumen, grade 80 / 25 shall be applied @1.5 kg / sqm over it & allowed to dry, after which clean sand & 0.01 cum / sqm shall be sprinkled over the concrete. Rate to include cost of all materials, labour etc. complete.	180	Sqm		
15	Providing brick work in C.M 1 : 6 in foundation and superstructure using clay bricks as per standard specifications. Rate to include cost of scaffolding, labour, curing etc., complete.	560	Cum		
16	Providing brick partition wall 115 mm thick in C.M. 1 : 4 using clay bricks of approved quality including plastering all faces with C.M.1:5, 12mm thick, all as per standard specifications.	200	Sqm		

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**Section –VII - Appendix – V - Rate Schedule- Simhadri 2 x 500 MW**

<b>S. No</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate ( Rs )</b>	<b>Amount ( Rs )</b>
17	Supplying and erecting including assembling fitting and fixing 25 micron anodised or 50 micron powder coated aluminium partition frames with matching doors etc., as per drawing with frames, shutters, double acting heavy duty floor springs, fittings, and fixtures, mortice lock, aluminium beading and fixing 12 mm thick twin laminated particle board of NOVAPAN make or approved equivalent to aluminium partitions and door frame etc., complete. Rate to include all aluminium sections, particle board, fixtures etc., complete.	350	Sqm		
18	Providing and laying R C C of mix 1: 2: 4, using 20mm down size hard broken granite stone jelly for all types of RCC works at all heights including centering, shuttering, scaffolding, finishing, curing etc. complete, but excluding cost of reinforcement fabrication all as per standard specifications. Rate to include for providing necessary slope in the concrete as directed by Engineer in charge.	175	Cum		
19	Cutting, bending, binding and placing in position with necessary binding wire of CTD bars for reinforcement including cost of MS binding wire of 18 / 20 gauge for all types of R C C works at all heights. Rate to include cost of steel, labour, fixing charges etc., complete.	26	Mt		
20	Providing plastering with CM 1 : 6, for the following thicknesses all as per standard specifications, including rendering smooth, rounding of corners etc., complete				
a)	12mm thick.	2000	Sqm		
b)	18mm thick.	2000	Sqm		

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**Section –VII - Appendix – V - Rate Schedule- Simhadri 2 x 500 MW**

<b>S. No</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate ( Rs )</b>	<b>Amount ( Rs )</b>
21	Providing plastering with CM 1: 3 12mm thick using water proofing compound 2% by weight of cement (Accoproof or impermo or equivalent as specified in IS 2645 ) for water facing surfaces as per standard specifications.	20	Sqm		
22	Finishing the top of floor with 20 mm thick cement concrete (without sand) in the proportion of one part of cement & three parts of 3 to 6 mm grade hard broken granite stone chips, finishing the surface smooth, curing, etc., complete all as per standard specifications at all levels (ELLIS pattern flooring first sort).	400	Sqm		
23	Providing and fixing in position of RCC precast slabs of various thickness in mix 1:2:4 using 6 to 12mm size hard broken blue granite stone jelly including moulding, shuttering, finishing, curing, carrying, fixing in position etc. complete, but excluding cost of reinforcement fabrication charges, all as per standard specifications				
a)	75 mm thick slab.	500	Sqm		
24	Supplying, fabricating and fixing in position of steel glazed windows and ventilators of standard rolled steel sections, 100 x 15 x 3 mm lugs embedded in cement concrete 1 : 3 : 6 blocks of size 150 x 100 x 100 mm including providing 10 mm square horizontal bars at 100 mm c / c welded to the frame, glazing with glass panes fixed with glazing pins and special sash putty of approved make, and two coats of enamel paint of approved make, and colour. Rate to include cost of raw material, metal beading, hinges or pivots, appliances, labour, fixing, painting etc., complete, all as per standard specifications.	80	Sqm		

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**Section –VII - Appendix – V - Rate Schedule- Simhadri 2 x 500 MW**

<b>S. No</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate ( Rs )</b>	<b>Amount ( Rs )</b>
25	Providing and fixing approved quality hydraulic door closure conforming to IS 3564 as directed by Engineer in charge.	8	No		
26	Manufacturing, supplying and fixing of flush door comprising of 25 mm thick with flush door frames of size 95 mm x 70 mm including cost of wind appliances hold fasts, furniture and fittings all as per standard specifications (single or double leaved door). Rate to include cost of labour, painting one priming coat and two coats of ready mixed synthetic enamel paint of approved make and colour.	50	Sqm		
27	Supplying, fabricating steel gate of 6.0 m wide as shown in the drawing transporting components to erection site and erection of fabricated steel work including all handling, leading, assembling, hoisting, erection in position and site welding/fastening, bolts wherever required as per drawing and specification. Rate to include providing PCC 1:4:8 for supporting the pillars, cost of raw steel, fabrication, erection, all consumables cement, labour charges etc., complete including synthetic enamel painting two coats over one coat of red oxide primer.	4	No		

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Signature of Tenderer

**Section –VII - Appendix – V - Rate Schedule- Simhadri 2 x 500 MW**

<b>S. No</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate ( Rs )</b>	<b>Amount ( Rs )</b>
28	Providing and fixing at all height false ceiling of 12.5mm thick tapered edge gypsum board conforming to IS : 2095 including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in accordance with zinc coating 600 as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 22 mm and 37 mm at 1200 mm centre to centre one flange fixed to the ceiling with dash fastener 12.5 mm dia x 40mm long with 6 mm dia bolts to the angle hangers of 25x25x5mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I. channels 45 x 15 x 0.9 mm running at the rate of 1200 mm centre to centre to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having clips of 10.5 mm at 450 mm centre to centre shall be fixed in a direction perpendicular to G.I. channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I.wire at every junction including fixing the gypsum fixed to wall/partition with the help of rawl plugs at 450 mm centre to centre with 25 mm long drive-all screws @ 230 mm interval including jointing and fixing to a flush finish of tapered and square edges of the gypsum board with recommended filler, paper tapes, finisher and two coats of primer suitable for gypsum board as per manufactures specification and also including the cost of making openings for light fittings, grills, diffusers, cut outs made with frame of perimeter channels suitably fixed all complete as per drawing and specification and direction of the Engineer-in-charge but excluding the cost of paintig.	400	Sqm		

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**Section –VII - Appendix – V - Rate Schedule- Simhadri 2 x 500 MW**

<b>S. No</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate ( Rs )</b>	<b>Amount ( Rs )</b>
29	Supplying and fixing in position of 18 SWG steel rolling shutters of approved make , made up of 80 x 1.25 mm MS laths with 1.25 mm thick top cover interlocked together through the entire length and joined together at the end by end locks mounted on specially designed pipe shaft including erecting and fixing in position as directed by Engineer in charge with necessary side brackets, guide channels, top cover arrangements , inside and outside locking arrangements and providing a priming coat of red oxide primer and 2 coats of synthetic enamel paint of approved colour and quality etc. complete as per standard specifications.	34	Sqm		
30	Finishing walls with water proofing cement paint of required shade as per standard specifications for new work (two or more coats) as per instructions of Engineer in charge.	3000	Sqm		
31	Finishing walls with water proofing cement paint of required shade as per standard specifications for new work (one or more coats) as per instructions of Engineer in charge.	7700	Sqm		
32	Painting with synthetic enamel paint on existing steel rolling shutters / doors / windows of required shade as per standard specifications for old work (one or more coats) as per instructions of Engineer in charge.	130	Sqm		
33	Painting with synthetic enamel paint on existing wooden doors of required shade as per standard specifications for old work (one or more coats) as per instructions of Engineer in charge.	40	Sqm		

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<b>S. No</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate ( Rs )</b>	<b>Amount ( Rs )</b>
34	Supplying and painting distemper two coats over a priming coat using best quality oil bound washable distemper of approved make and colour. Rate to include cost of cleaning and preparation of the surface, applying putty, labour, materials etc., complete.	2850	Sqm		
35	Supplying medium duty Galvanised Iron pipes of the following sizes at site of work, laying to proper line and level in ground or jointing and fixing on walls & floors for water supply pipe lines with all necessary specials, unions and appurtenances, testing as per standard specifications, making necessary earthwork in ground, holes, chases etc. on floor & wall and making good all damages and finishing to match with the existing work, refilling the trenches with excavated earth and filling chases & grooves in walls and all other incidental charges etc. complete. Rate to include cost of GI pipes, specials and all other works				
a)	40mm dia GI pipe line with specials.	100	Rm		
b)	25mm dia GI pipe line with specials.	100	Rm		
c)	20mm dia GI pipe line with specials.	70	Rm		
d)	15mm dia GI pipe line with specials.	70	Rm		
36	Supplying at site of work and laying stoneware pipes of the following sizes in trenches and jointing with CM 1:2 and testing with water as per standard specifications. Rate to include cost of stoneware pipes, specials, all jointing materials like hemp yarn, sand, cement, conveyance of water, tools & plants for testing , labour and all incidental charges etc. complete & includes earthwork excavation for trenches and back filling				
a)	100mm dia SW pipe line with all specials.	70	Rm		
b)	150 mm dia SW pipe line with all specials.	50	Rm		

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**Section –VII - Appendix – V - Rate Schedule- Simhadri 2 x 500 MW**

<b>S. No</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate ( Rs )</b>	<b>Amount ( Rs )</b>
37	Floor finishing with 25 mm thick ironite floor laid in panels of 1mx1m, over a concrete base of 100mm thick, PCC 1:2:4 the concrete base of 100mm thick is to be laid using 20 mm down graded hard broken blue granite stone jelly. Floor finishing of 25 mm thick is to be laid while the base concrete is wet for proper bond, the bottom 15 mm thick consists of one part of cement and one part of 6 mm downgraded hard broken blue granite stone chips (the proportion being by volume) and the top 10mm finish with hardening compound of proportion one part of hardonite (ironite or equivalent) 4 parts of cement and 8 parts of 6mm downgraded hard broken blue granite stone chips (the proportion being by weight). Rate to include cost of 100mm thick base PCC 1:2:4 and top finish of 25 mm thick granolithic flooring including cost of materials, form work, finishing labour, cruring etc. complete as per standard specifications and instructions of Engineer in charge.	2300	Sqm		
38	Supplying and fixing in position 15 mm nominal size screw down type brass bib cock of approved make and quality (leader, dripless or orient ) as per standard specifications. Rate to include cost of bib cock, jointing materials, labour for carrying, fixing and testing etc. complete.	10	No		
39	Supplying at site of work & fixing in position of 20 mm size brass stop cock of approved make and quality (leader, dripless or orient) as per standard specifications. Rate to include cost of stop cock, jointing materials, labour for carrying fixing and testing etc. complete.	10	No		

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**Section –VII - Appendix – V - Rate Schedule- Simhadri 2 x 500 MW**

<b>S. No</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate ( Rs )</b>	<b>Amount ( Rs )</b>
40	Supplying at site of work and fixing in position of the following size of Gun metal wheel valve of approved make and quality ( leader,dripless or orient) as per standard specifications.Rate to include cost of wheel valve, jointing materials, labour for carrying , fixing & testing complete				
a)	15mm dia nominal size wheel valve.	6	No		
b)	20mm dia nominal size wheel valve.	6	No		
c)	25mm dia nominal size wheel valve.	4	No		
d)	40mm dia nominal size wheel valve.	4	No		
41	Supplying at site of work & fixing in position of high class, superior & approved make machined edge mirror of size 600 x 450 x 5.50 mm, mounted on 6 mm thick plywood sheet. Rate to include cost of all materials, wooden plugs, CP brass screws, clips, washers etc., complete.	6	No		
42	Supplying at site of work & fixing in position 600 X 20 mm dia chromium plated wall mounted towel rod with brackets, etc. all complete as per specification.	6	No		
43	Supplying at site of work, carrying, laying, jointing and fixing in position of two white glazed earthen ware flat back type angular lipped urinals of 430 x 230 x 350 mm with one high level CI flushing tank of 5 litre capacity connected to both the urinals, tank, connecting pipes, painting with two coats of synthetic enamel paint over one coat of red oxide primer.	2	Set		

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**Section –VII - Appendix – V - Rate Schedule- Simhadri 2 x 500 MW**

<b>S. No</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate ( Rs )</b>	<b>Amount ( Rs )</b>
44	Supplying at site of work, carrying, laying jointing and fixing in position of European type white glazed earthen ware water closet pan with seat and lid, C.P. Brass hitches and rubber buffers of size 580mm x 440 mm of approved quality and make with suitable P or S trap, 10 litre low level PVC flushing cistern (of approved make) with fittings, over flow arrangements with specials etc. complete. Rate to include cutting the walls and floors wherever required and making good all damages and finishing to match the existing work, cost of jointing materials, labour for carrying , fixing and testing and all other incidental charges etc, complete (Hindustan or Parryware ).	3	No		
45	Supplying at site of work, carrying, laying jointing and fixing in position of Indian type white glazed earthen ware water closet pan of size 580 mm x 440 mm of approved quality and make with suitable P or S trap, 10 litre low level PVC flushing cistern (of approved make) with fittings, over flow arrangements with specials etc. complete. Rate to include cutting the walls and floors wherever required and making good all damages and finishing to match the existing work, cost of jointing materials, labour for carrying , fixing and testing and all other incidental charges etc,. complete. (Hindustan or Parryware )	2	No		
46	Supplying at site of work, carrying and fixing in position of white glazed earthenware wash hand basin of size 580 x 430 x 225 mm of approved make quality ( Hindustan or Parryware ) with 2 numbers of ISA 40x40x4 mm angles for brackets painted with two coats of synthetic enamel paint, 15 mm CP brass Strap and unions, PVC waste pipe of 32mm dia of required length etc,. complete. Rate to include cutting & making good the walls wherever required, cost of all materials, labour for carrying, laying , fixing and testing and all other incidental charges.	6	No		

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**Section –VII - Appendix – V - Rate Schedule- Simhadri 2 x 500 MW**

<b>S. No</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate ( Rs )</b>	<b>Amount ( Rs )</b>
47	Supplying at site of work & fixing in position of 100 x 75 mm NAHANI trap with CI gratings as per standard specifications. Rate to include cost of all materials, labour for fixing, testing etc., complete.	10	No		
48	Supplying at site of work & fixing in position of 150 mm stone ware GULLY trap and providing RCC precast slab covering etc., complete as per standard specifications. Rate to include cost of all materials, labour for fixing, testing and cost of RCC cover complete.	4	No		
49	Flooring, dado or skirting with coloured ceramic tiles of required size as specified in tender specification laid in cement mortar 1:3, 12 mm thick over roughened wall or floor at any level including painting neatly with cement of appropriate colour etc., complete.	350	Sqm		
50	Construction of a masonry inspection chamber of size 60 x 60 cm internal using brick work in CM 1:6, and plastering in CM 1:5, bottom finished with PCC 1: 2: 4 making necessary chamfering etc., complete.	10	No		
51	Construction of a septic tank of size 6.00 x 2.40 x 2.70 metre and a cess pool of 3.00 metre dia as per drawing No. 2-BHE / SR / CVL / 04 / 00. Rate to include cost of Excavation, PCC, Brickwork, RCC works, Reinforcement, SW pipes, AC pipes, cowl, filling with aggregates cover slab, testing of the septic tank etc., complete as per drawing.	1	No		
52	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75 mm bed of dry brick ballast 40 mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth.	110	Sqm		

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<b>S. No</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate ( Rs )</b>	<b>Amount ( Rs )</b>
53	Providing and laying non – pressure NP2 class( light duty ) RCC pipes with collars jointed with stiff of mixture of CM 1: 2 including testing of joints etc., complete				
a)	250 mm dia RCC pipe.	60	Rm		
b)	600 mm dia RCC pipe.	60	Rm		
54	Providing and fixing 12 mm thick and 150 mm wide pelmet waith 25 mm dia aluminium curtain rod and brackets including fixing with 25 x 3 mm MS flat 10 cm long and plugs etc., complete in second class teak wood for all doors and windows.	60	Rm		
55	Supplying and fixing wooden frame (3" x 2") for fixing AC unit in brick wall. The size of wooden frame shall be 27" x 19". Rate to include the cost of wooden frame, labour charges for making opening and fixing the wooden frame with existing walls.	8	No		
56	Supplying and fixing precast RCC jolly of 50 mm thick of size 450 x 300 mm as per standard specification. Rate to include cost of RCC jolly and labour charges for fixing in position etc., complete.	20	No		
57	Supplying and fixing sintex doors (single leaved door) at site of work with frames including fittings all as per standard specifications. Rate to include cost of labour and fittings etc., complete.	12	Sqm		

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<b>S. No</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate ( Rs )</b>	<b>Amount ( Rs )</b>
58	Supplying and fixing sintex tank at site of work for storing water.Rate to include cost of tank and other incidental charges etc., complete				
a)	500 Litres capacity.	1	No		
b)	1000 Litres capacity.	1	No		
<p><b>VALUE FOR PART 'A' CIVIL WORKS Rs.</b>  <b>( Rupees _____</b></p> <p><b>NOTE : WHEREVER CEMENT, REINFORCEMENT AND STRUCTURAL STEEL IS REQUIRED,THE SUPPLY (OF APPROVED BRAND) IS TO BE ARRANGED BY CONTRACTOR AT HIS OWN COST. THE QUOTED RATE SHALL INCLUDE COST OF CEMENT AND STEEL ALSO</b></p>					

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<b>S. No</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate ( Rs )</b>	<b>Amount ( Rs )</b>
<b><i>PART' B' STRUCTURAL WORKS</i></b>					
1	Supplying raw steel, fabricating steel work and transporting to erection site and erection of fabricated steel work including all handling conveying, loading, assembling, hoisting, erecting in position and site welding and / or bolting wherever required & alignment of the structures as per drawings & specifications. Rate to include cost of raw steel, fabrication, bolts & nuts, welding, tools & plants, labour etc. painting two coats over steel works with synthetic enamel paint of BHEL approved make & color, brushing to give an even shade including cleaning the surface of all dust, dirt & other foreign matters, cost of paint & scaffolding charges all as per standard specifications.	28	Mt		
2	Supplying at site of work Asbestos corrugated cement sheet as required, hoisting and fixing in position for roofing, gable end, side sheeting etc. including AC specials such as louvers, barge boards etc. on steel purlins and fixing them in position with necessary crank bolts, bitumen & GI washers etc. complete as per drawing, specifications and instructions of Engineer in charge. Rate to include cost of AC sheet, labour and other incidental charges etc., complete. Payment will be made for laid area of roof only.	3900	Sqm		
3	Providing corrugated fiber glass reinforced polyester translucent roof light sheets of 3 mm thickness and fixing to match the GI / AC sheeting with necessary GI bolts, nuts and washers etc. complete.	110	Sqm		
<b>VALUE FOR PART 'B' STRUCTURAL WORKS Rs. Rupees</b> _____					

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<b>S. No</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate ( Rs )</b>	<b>Amount ( Rs )</b>
<b><i>PART 'C' ELECTRICAL WORKS</i></b>					
1	Supplying and wiring with 1.5 Sq mm PVC insulated unsheathed copper conductor cable in rigid PVC conduit pipe for lights / fans with one number of 5 amps flush type switch.	220	Point		
2	Supply and wiring with 1.5 Sqmm PVC insulated unsheathed copper conductor cable in rigid PVC conduit pipe for bell with one number of 5 amps flush type bell switch, including supply of calling bell of standard quality to be approved by Engineer-in- charge.	10	Point		
3	Supplying and wiring with 2.5 Sqmm PVC insulated copper unsheathed stranded conductor cable in rigid PVC conduit pipe 15 amps combined 5 amps ( 6 pin) flush type two – in – one switched socket with indicator on a suitable surface mounting PVC box with continuous run of number 14 GI wire earthing (Anchor / GPL / Ellora plate switched socket to be used ).	20	Point		
4	Supplying and wiring 1.5 Sqmm PVC insulated copper unsheathed conductor cable in rigid PVC conduit pipe for 5 amps 3 pin switched socket of plate switch type with indicator on a suitable surface mounting PVC box with continuous run of number 14 GI wire for earthing ( Anchor / CCPL / Ellora plate switch type switched socket to be used).	40	Point		
5	Supply and fixing of a single 4 feet 40 w tube light fitting on ceiling / wall with assembly, putty, electronic choke and starter of standard quality to be approved by Engineer in charge.	130	No		

Company Seal

Signature of Tenderer

**Section –VII - Appendix – V - Rate Schedule- Simhadri 2 x 500 MW**

<b>S. No</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate ( Rs )</b>	<b>Amount ( Rs )</b>
6	Supply and fixing of water tight bulk – head fitting with guard and glass suitable for and with 60 watt lamp.	12	No		
7	Supply and fixing of 1400 mm sweep ceiling fan with 600 w anchor classic / supreme / rider make electronic regulator (Bajaj,Kaithan,CGL).	60	No		
8	Supply and fixing of 600 mm exhaust fan.(Bajaj,Kaithan,CGL).	10	No		
9	Supplying and laying of two runs of 4 Sq.mm pvc insulated PVC sheathed standard copper conductor cable in rigid PVC conduit pipe using clamps on wall & continuous run of 14 SWG wire for earthing. The pipe should be concealed wherever necessary	900	Rm		
10	Supplying and fixing of 3 phase Energy meter of suitable capacity of 250A, with suitable weather proof meter box made out of 18 SWG of size 50 x 40 x 20 cm or near about to accommodate meter with peep through glass for meter reading, hinged doors with locking arrangements and meter card pockets. The meter box should be fixed as per instructions of engineer in charge and necessary painting shall be done as per IS including Supplying and fixing of 50 cm length 50 x 50 x 6 mm MS angle on wall with necessary hole with suitable bolt & nut for fixing service wire for the above meter.	1	Set		
11	Supply and fixing of 415V,250A switch fuse units housed in MS sheet enclosure as per relevant standard and shall be of wall mounting type, secured over a 25 x 6 mm painted angle iron frame as per IS standard.	3	No		

Company Seal

Signature of Tenderer

**Section –VII - Appendix – V - Rate Schedule- Simhadri 2 x 500 MW**

<b>S. No</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate ( Rs )</b>	<b>Amount ( Rs )</b>
12	Supply and fixing of 32 A , 3 phase ,7W, TPN distribution board as per relevant standards with 32 A HRC backlite fuse unit block. Distribution board shall be mounted in a enclosure with hinched door and shall be provided with R,Y,B indicators, Volt meter with selector switch. The whole assembly be fixed on 50 x 50 x 6 mm painted angle iron frame embedded on wall. ( more details ref specification ).	3	No		
13	Supply and fixing of 32 Amps. 3 phase lighting distribution board, having 1 number 32 amps TPN MCB for incomer with 9 numbers of 5A single pole MCB and 3 number of 16A single pole MCB. Light Distribution board shall be made out of 2.5 mm sheet as per relevant standard, and fixing arrangement shall be as mentioned above.	3	No		
14	Supply and fixing of 230V, 16 A 3 pin plug and socket with 16A MCB mounted in a metallic box and shall be of wall mounting type as per relevant standard.	3	No		
15	Supply and erection of earth electrode using 50mm dia, 2.50 metre long GI pipe with alternate layer of salt and charcoal and with masonry chamber and RCC cover, and using 50 x 6 mm GI flat welded on the 50 mm pipe with a provision on GI flat for terminating the earthing conductor and in general conforming to is 3043.	4	Set		

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Signature of Tenderer

**Section –VII - Appendix – V - Rate Schedule- Simhadri 2 x 500 MW**

<b>S. No</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate ( Rs )</b>	<b>Amount ( Rs )</b>
16	Supply and laying of number 8 SWG GI wire for earthing	220	Rm		
17	Supplying and fixing 1x 250W HPSV lamp fittings of approved brand outside the building including mounting brackets, wiring, providing individual switches etc., complete. Rate shall include cost of fitting with HPSV lamp 1 x 250W, control gears, angle frame/pipes for fixing the lights, labour charges for making holes and matching the same with existing wall as directed by Engineer in charge.	20	No		
18	Supply and fixing of 1000W halogen lamp fittings of approved brand outside the building including mounting brackets, wiring, providing individual switches etc., complete. Rate shall include cost of fitting with Halogen lamp 1 x 1000W, control gears, angle frame/pipes for fixing the lights, labour charges for making holes and matching the same with existing wall as directed by Engineer in charge.	20	No		
	<b>VALUE FOR PART 'C' ELEC. WORKS Rs.</b>				

Company Seal

Signature of Tenderer

**Section -VII - Appendix - V - Rate Schedule- Simhadri 2 x 500 MW**

<b>S. No</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate ( Rs )</b>	<b>Amount ( Rs )</b>
	<b>PART 'D' DISMANTLING WORKS</b>				
1	Demolishing cement concrete including disposal of material with in 50 metres lead.				
a)	1:3:6 or richer mix	200	Cum		
b)	1:4:8 leaner mix	100	Cum		
2	Dismantling cement asbestos, Celotax or other hard board ceiling or partition or roofing including stacking of serviceable materials and disposal of unserviceable materials with in 50 metres lead.	800	Sqm		
	<b>VALUE FOR PART 'D' DISMANTLING WORKS RS.</b>				
	<b>TOTAL VALUE FOR PART (A+B+C+D) : RS _____</b>				

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Signature of Tenderer

## NOTE TO RATE SCHEDULE

1. The quantities indicated are only approximate and are subject to variation. Payment would be restricted to the actual quantity of work executed and measured.
2. Prices quoted above shall include supply of all construction materials and their transport, storage and preservation.
3. It shall be the responsibility of the contractor to get all the materials including sand, stone, jelly, Cement, Steel, bricks concrete Blocks etc., approved by Engineer-in-charge in advance before they are actually used on the work.
4. Exact location of electrical points will be identified by the BHEL Engineer at site during execution.
5. The unit rate quoted are to be kept firm till the entire work is completed. No revision of rates will be allowed under any circumstances on any account.
6. Tenderers are requested to stock adequate quantity of construction materials well in advance for facilitating uninterrupted and continuous work as there is likely hood of heavy demand for construction materials during monsoon period.
7. Tenderers are required to quoted their rates, only in the price bid (part II) provided by BHEL. Quoting of rates in any other form / formats will not be entertained.
8. The Price bid should contain signature of tenderer ( in all pages ) and their office seal . Over writing and corrections if any should be countersigned by authorized signatory.
9. Additional information to be furnished by the tenderer alongwith the price bid. Please refer clause 19.1 of section VI of special conditions of contract

1. Value of VAT included in the total price Rs \_\_\_\_\_

2. Rate of VAT % \_\_\_\_\_ 3. On what value Rs. \_\_\_\_\_

Company seal

Signature of Tenderer