

TENDER SPECIFICATION

BHEL PSSR SCT 1270

**CONSTRUCTION OF FOUNDATIONS FOR BOILER,
ESP, MILL, MILL BAY, TG Etc.**

FOR

1 X 500 MW TPS

FOR

KPCL

BELLARY, KARNATAKA

VOLUME - III

RATE SCHEDULE

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 Government of India Undertaking)
Power Sector, Southern region
690, Anna Salai, Nandanam, Chennai-35

TENDER SPECIFICATION No. BHEL:PSSR:SCT: 1270

NAME OF THE WORK

**CONSTRUCTION OF FOUNDATIONS FOR BOILER,
ESP, MILL, MILL BAY, TG Etc.**

Volume III

RATE SCHEDULE

Issued to
M/s

For and on Behalf of
BHARAT HEAVY ELECTRICALS LIMITED

Addl General Manager/Contracts

(This tender document is not Transferable)

Place: Chennai – 600 035

Date:

PREAMBLE FOR THE SCHEDULE OF QUANTITIES.

PREAMBLE TO THE SCHEDULE OF QTS. (SOQ)

- 1) Details of the items in this Schedule shall be read in conjunction with the corresponding KPCL specifications, drawings and other documents and shall have precedence over any contrary statement mentioned any where in this document.
- 2) The work shall be carried out as per construction drawings, specifications, the description of the items in this schedule and/or Engineer's instructions., Drawings enclosed with these documents are only indicative giving some idea of the type of work involved. The layout, sizes and details of the building, structures and foundations shown in tender drawings may vary at a large extent during actual construction. Final drawings will be issued progressively during the execution of the work.
- 3) Items of work provided in this schedule but not covered in the specifications shall be executed strictly as per instructions of the Engineer.
- 4) Unless specifically mentioned otherwise in the contract, the bidder shall quote his rates for the finished items and shall provide for the complete cost towards fuel, tools, tackle, equipment, constructional plant , temporary works, labour materials, levies , taxes , transport, layout, repairs, rectification, maintenance till handing over, supervision, shops, establishments, services , temporary roads, revenue expenses, contingencies, overheads, profits and all incidental items not specifically mentioned but reasonably implied and necessary to complete the works according to the contract.
- 5) The rate quoted shall be inclusive of cleaning the site of any vegetations, dressing and leveling etc., required for commencement of site activities. No separate payment will be made towards the same.
- 6) The rate shall also be inclusive of carrying out survey of site to establish levels and coordinates at suitable intervals, form existing grid levels and coordinates furnished by the owner, establish bench marks, setting out the location and levels of the proposed structures, constructions and making references , pillars and other identification marks etc. No separate payment will be made towards the same.
- 7) The quantities of the various items mentioned in the schedule are approximate and may vary up to any extent or be deleted altogether. The quoted rates of each item shall remain firm as long as the variation in the total value of the works remain within +/- 30% (thirty percent) of the Bid Price of the work. The variation clause will be applicable as stipulated in the General conditions of contract, Volume 1 of this tender.

- 8) Rates shall be quoted both in figures and in words in clear legible writing. No over writing is allowed. All scoring and cancellation should be counter signed by the bidder. In case of illegibility, the interpretation of the engineer shall be final. All entries shall be in English language.
- 9) Engineers decision shall be final and binding on the contractors regarding clarification of items in this schedule with respect to the other section of the contract.
- 10) Unless otherwise specified in the schedule of items structural and reinforcement steel will be issued by BHEL as FREE ISSUE as specified elsewhere in this tender document.
- 11) In case of any discrepancy between item description, relevant drawing and/or specification clarification shall be sought at tender stage itself. Otherwise it shall be assumed that the bidder has quoted for the more stringent requirement.

HIERARCHY

In case of any conflict/deviations amongst various documents, the order of precedence shall be as follows

- Statutory Regulations
- KPCL specification
- Items in Schedule of quantities
- IS/BS standards
- BHEL's standard specification (with prior approval of Engineer-in-charge).


GENERAL :


The following points to be taken care while submitting the offer in this tender specification


Technical requirements in Volume- II Should be read in conjunction with BOQ in Volume – III and other sections of the tender / contract. In case of any conflict between the contents of BOQ in Volume – III and Technical Requirements in Volume – II, BOQ will prevail over Technical requirements.


In case of any conflict between Technical requirements in Volume – II – Book 1 (Customer specification) and standard technical specification in Volume – II – Book 2, Technical specification in Volume – II – Book 1 (customer specification) will prevail over standard technical specification in Volume – II – Book 2.


Volume – II – Technical specification consists of Customer Technical specification and BHEL specification is for the total Project of 1X500 MW EPC tender (reproduced).


		1X500 MW BELLARY TPS		SPECIFICATION No.		BHEL PSSR SCT
		PACKAGE - 1 - CONSTRUCTION OF FOUNDATIONS FOR BOILER, ESP, TG, MILL & MILL BAY ETC				VOLUME III
ST. NO	DESCRIPTION	UNIT	Qty	RATE	AMOUNT	
100	EARTH WORK IN EXCAVATION, BACKFILLING AND DISPOSAL AS PER SPECIFICATION AND DRAWINGS					
101	Excavation up to 2m depth below ground level for foundation,trenches,pipe lines,drains etc including dewatering,shuttering and shoring if required,dressing of sides,levelling to grade and ramming of bottoms,stacking/disposal of surplus excavated material with in a lead of 2.0KM etc complete as per specifications, drawings and instructions of engineer					
i)	In all types of soils including expansive soil, ash, morrum, laterite	CUM	36000			
ii)	In soft rock and weathered rock which can be excavated by means of crow bar, pick axe etc. but does not require chiselling, chemical grouting and blasting.	CUM	35000			
iii)	In hard rock , by means of controlled blasting including provision of sensor to assess the impact of blast on the adjacent structures.	CUM	20000			
iv)	In hard rock (blasting Prohibited) by means of chiselling, wedging etc.	CUM	6000			
102	Extra over item 101 above, for all types of soil/rock, for additional lifts beyond the initial lift of 2 meters (included in item 1 above) all complete as per specifications, drawings and instructions of the engineer for the following lifts:					
i)	In all types of soils					
a	beyond 2 m and upto 4 m	CUM	8500			
b	beyond 4 m and upto 7 m	CUM	350			
c	beyond 7 m and upto 10 m	CUM	200			
ii)	In all types of rocks					
a	beyond 2 m and upto 4 m	CUM	22000			
b	beyond 4 m and upto 7 m	CUM	8500			
c	beyond 7 m and upto 10 m	CUM	1200			
d	beyond 10 m and upto 15 m	CUM	100			


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ST. NO	DESCRIPTION	UNIT	Qty	RATE	AMOUNT		
104a	Disposal of surplus excavated earth/rock beyond an initial lead of 2km and upto a lead of 5km, loading, transporting, dumping and levelling the dumped soil as specified and directed by the Engineer-in-charge.	CUM	20000				
i	Carriage beyond a lead of 5km(rate for every one KM)	CUM	10000				
105	Filling using selected excavated materials in trenches, plinths, sides of foundations and other underground structures, pipes, are levelling etc. in layers not exceeding 250 mm thickness including lead upto 2km and all lifts and including loading from stock pile, carting, unloading, filling, watering and compacting/ramming each layer, all complete as per specifications, drawings and as directed by the engineer to achieve the following densities:						
ii)	90% Standard Proctor density	CUM	60000				
106	Filling using selected materials in trenches, plinths, sides of foundations, in the space below the grade level slab and other under ground structures, pipes etc. in layers not exceeding 250 mm in thickness including all lead & lifts and including excavating, loading, unloading, carting, filling, watering and compacting/ramming each layer, all complete as per specifications, drawings and as directed by the engineer for the following works						
i)	With selected soil brought from borrow areas arranged by contractor, including royalties, fees etc.for all leads and compacted to following densities						
a	90% Standard Proctor density	CUM	10000				
ii)	with river sand including royalitites and all other statutories and compacting to 80% relative density etc. for all leads	CUM	3000				
107	Filling in trenches, plinths, area paving and other underground structures with stone (63mm down graded), in layers including breaking of boulders to required sizes, filling the interstices with river sand and mechanical compacting for all lead & lifts in complete as per instructions of Engineer-in-charge.	CUM	8000				


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ST. NO	DESCRIPTION	UNIT	Qty	RATE	AMOUNT		
108	Filling in transformer pits etc. , with clean 40 mm nominal size stone aggregate including all labour, materials, royalties, equipments etc. complete as per instructions of engineer in charge.	CUM	800				
109	Providing and laying 250mm thick boulder pitching (single stone) on slopes of earth fill/cut including filling the interstices with rock fragments, gravel, watering and compaction, etc complete as per specification	CUM	500				
110	Providing anti termite/weed treatment in column pits, wall trenches, foundations, under floors etc. as per specification.	SQM	8000				
200	PROVIDING AND PLACING CONCRETE WORK INCLUDING COST OF LABOUR, MATERIALS AND EQUIPMENT FOR HANDLING, TRANSPORTATION, BATCHING, MIXING, PLACING, VIBRATING INCLUDING COST OF PLASTICIZERS CONFIRMING TO SPECIFICATIONS FOR STRUCTURAL CONCRETE WHEREEVER REQUIRED AND CURING (EXCLUDING COST OF CENTERING, SHUTTERING AND REINFORCEMENT) COMPLETE AS PER DRAWING AND SPECIFICATIONS UNLESS SPECIFIED OTHERWISE FOR THE FOLLOWING:						
201	Concrete of grade 1:4:8 as filling course at any level below finished floor level, under and around foundations/floors, mass dumps etc with 40 mm nominal size graded aggregate.	CUM	600				
202	Concrete of grade M15 as levelling course , under and around foundations/floors etc with 40 mm nominal size graded aggregate.	CUM	4200				
203	Concrete of grade M20 in foundations, under floors etc complete with 20 mm nominal size graded aggregate.	CUM	4700				
204	Concrete of grade M-25 in foundations, pipe encasements, super structure and other allied equipment foundations at all depths and all levels etc complete with 20 mm nominal size graded aggregate.	CUM	12500				


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ST. NO	DESCRIPTION	UNIT	Qty	RATE	AMOUNT		
205	Concrete of grade M-25 in T.G. Block and machine foundations at all heights from finished floor level except top deck supported over vibration isolation system including addition of suitable plasticizer conforming to IS 9103-latest to achieve a slump more than 125mm in concrete as per manufacturer's recommendation with 20 mm nominal size graded aggregate.	CUM	5000				
206	Providing and laying Design Mix M30 grade for reinforced concrete works using 20mm graded aggregate in top decks of machine foundations, TG deck etc, supported on vibration isolation system (excluding supply and installation of vibration system) at all levels including addition of suitable plastisizers conforming to IS9103 to achieve a slump more than 125 mm in concrete as per manufacturers recomendation, preperation of scheme for concreting, getting it approved by engineer, labour, materials, equipment, handling, batching, transporting, mixing, pumping, placing, leveling, vibrating, compacting, curing, testing, cleaning and rendering the exposed surface with cement sand mortar to give a smooth and even surface, maintaining and submitting records of concreting, petrographic examination and potential reactivity of aggregate etc. all complete as per specification, drawing and instructions of engineer, but excluding formwork, staging, reinforcement, embeddments, UPV test and temperature control of concrete.	CUM	1300				
207	Extra over sl no 205 & 206 above for conducting UPV testing as directed by the engineer in charge,including submission of test reports (4 copies). Rate to include all labour charges,staging and other misc charges etc complete as per specification. If any defect found in UPV the same shall be grouted with epoxy pressure grout as directed by engineer in-charge.	CUM	4000				


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ST. NO	DESCRIPTION	UNIT	Qty	RATE	AMOUNT		
208	Extra over St. No. 205 & 206 above, for controlling of temperature of freshly laid concrete to less than 23 degree centigrade using ice, including all related arrangements for providing, storing and mixing of ice with water, cooling of aggregates etc., all complete as per specification, drawing and instruction of engineer in charge.	CUM	4000				
209	Concrete of grade M-25 in precast works with 20mm graded aggregate. like trench/drain covers, etc.at all levels in all kinds of work including formwork/moulds, curing, handling, storing, transpoting, all leads, erection without damage, setting in position with cement sand mortar (1:3), filling the gaps between adjacent precast units with cement sand mortar (1:3) and including making of holes for bolts for fixing, welding etc.complete.	CUM	100				
210	Concrete of grade M25 in foundation, superstructure of water retaining structures either below or above finished floor level including addition of suitable plastisizer based water proofing compound confirming to IS 9103 latest to achieve a slump more than 125 mm in concrete as per manufacturers recommendation and subsequent reduction in cement content upto a maximum 10% complete etc. as per specification with 20 mm nominal size graded aggregate.	CUM	2000				
211	Dismantling concrete work for all types of structures at all levels including stacking of servicable material to a lead of 500 m and disposal of unservicable material upto a lead of 2 km, cutting of reinforcement, labour, equipment, safety precautions etc all complete as per drawings, specification and instructions of engineer in charge.						
i)	Plain cement concrete of all grades	CUM	10				
ii)	Reinforced cement concrete of all grades including reinforcement cutting	CUM	50				
212	Providing and applying Curing compound of approved make & quality to a fresh concrete surface as per standard specification.	SQM	7500				


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ST. NO	DESCRIPTION	UNIT	Qty	RATE	AMOUNT	
300	SUPPLYING, FIXING AND REMOVING FORMWORK AT ANY ELEVATIONS FOR ALL STRUCTURES, AS PER SPECIFICATIONS AND INCLUDING ALL LABOUR MATERIAL, SCAFFOLDINGS AND CENTERING COMPLETE INCLUDING POCKETS ETC. FOR THE FOLLOWING:					
301	Ordinary form work below finished ground floor level for foundations, footings, bases of columns, walls, columns, pilasters, beams, mass concrete, trenches etc.	SQM	3500			
302	Fairface form work below finished ground floor level for foundations, footings, base of columns, walls, columns, pilasters, beams, mass concrete, trenches etc. for exposed concrete works.	SQM	22500			
303	Ordinary form work above finished ground floor level for columns, beams, suspended floors, roofs, lintels, cantilevers, staircases, landings, balconies, domes, arches etc. for all heights.	SQM	3500			
304	Fairface form work above finished ground floor level for columns, beams, suspended floors, roofs, lintels, cantilevers, staircases, landings, balconies, domes, arches etc. for all heights.	SQM	5000			
305	Formwork for TG superstructure-fairface. (above finished floor level)	SQM	3500			
305a	Ornamental/Curved shuttering using fairface form work	SQM	2000			
305b	Staging and de-staging required for all spring mounted decks like TG, ID including submission & approval of design details/dwgs as per specifications and including all labour, staging material etc complete.	MT	750			
306	Providing, fixing and removing formwork in block-outs/pockets and openings (below 0.1 sqm contact surface area with concrete) at all elevations including cutting, formation of all shapes and all other operations required for making the required shape and size all complete as per specification, drawing and instruction of engineer in charge.					


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ST. NO	DESCRIPTION	UNIT	Qty	RATE	AMOUNT		
i)	Upto 300 mm depth	Nos.	375				
ii)	From 301 mm upto 600 mm depth	Nos.	325				
iii)	From 601 mm upto 1000 mm depth	Nos.	285				
400	REINFORCEMENTS						
401	Straightening, cutting, bending, placing in position at any level, binding of mild steel reinforcements in concrete including cost of binding wire, labour, transportation of reinforcement steel from BHEL stores with in the plant boundary to work spot,loading,unloading etc. complete all as per specifications & drawings.	MT	30				
402	Straightening, cutting, bending, placing at any level, binding in position high yield strength steel reinforcements in concrete including cost of binding wire, labour,transportation of reinforcement steel from BHEL stores with in the plant boundary to work spot,loading,unloading etc. complete all as per specifications & drawings.	MT	3500				
500	WATER PROOFING AS PER SPECIFICATIONS.						
501	Providing minimum two coats of bituminous paint on concrete surfaces in contact with soil in water retaining structures, of grade 85/25 conforming to IS: 702 @ 1.7 kg/sqm.	SQM	3500				
502	Providing and mixing approved plasticiser based water proofing compound in concrete or cement mortar for works wherever specified or directed as per specification/manufacturer's instructions, testing of samples for water proofing etc. complete.	LITRES	3500				
600	SUPPLYING & INSTALLATION OF JOINT FILLER AND SEALING COMPOUND:						
601	Supplying & installation of bitumin impregnated fibre board confirming to IS 1838 as joint filler at joints in concrete including nailing, coating of both faces with coal tar pitch/bitumin, labour, material, equipments etc all complete at all levels as per specification, drawings and instruction of engineer in charge:						
a	12mm thick joints.	SQM	45				
b	20mm thick joints.	SQM	70				


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ST. NO	DESCRIPTION	UNIT	Qty	RATE	AMOUNT		
c	25mm thick joints.	SQM	85				
602	Supplying and filling in position hot applied bitumin sealing compund(Grade A) confirming to IS 1834 including cleaning, mixing, heating, pouring/injecting sealing copmpound in gaps in joints at all levels including application of primer, labour, material, equipments etc. all complete as per specification/drawing, instruction of engineer in charge.	Kg	200				
700	M.S. EMBEDMENTS						
701	Supply, fabricating and fixing of embedments, MS inserts, pipe sleeves, guide rails, angle pieces, rungs of various diameters, plates of dimensions as required including cost of all labour, materials and equipment, transportation, loading, unloading, handling, welding, rivetting, bolting, cutting, drilling, scaffolding and setting as per specifications and drawings.	MT	30				
702	Fixing of embedments, MS inserts, pipe sleeves, rails, guide rails angle pieces, anchor bolts of various diameters, plates of dimensions as required including cost of all labour, materials and equipment for fixing in position, scaffolding and setting in position, transportation from stores within the plant boundary to work spot, loading, unloading etc. complete as per specifications and drawings. (Only embedments will be provided by BHEL under free issue)	MT	45				
703	Supply, fabrication, transportation, delivery at site, erection, installation and allignment of MS foundation bolt (Grade-1 of IS:432 & IS:2062) assembly in concrete along with nuts, lock nuts (IS:1363, IS:1364 & IS:3138), anchor plates, stiffner plates, protective tape etc. upto and including 80 mm dia, 3000 mm long including furnishing of labour, materials, equipments, welding, cutting, grinding, threading, drilling, pipe sleeves etc. all complete as per specification, drawing and instruction of the engineer.	MT	70				

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ST. NO	DESCRIPTION	UNIT	Qty	RATE	AMOUNT		
704	Providing all assistance for pre compressing, placing, locking and releasing of vibration isolation system over foundations at all elevations including transportation from stores, making of required staging,platforms, alignment,all laboures etc complete as per specification and drawing.	NOS.	150				
800	GROUTING AS PER SPECIFICATION FOR THE FOLLOWING:						
802	Providing and grouting of pocket holes, pipe sleeves of any shape and size under base plates after erection of necessary structural steel work, machinery with mix 1:1:2 (one part Cement : 1part Sand : 2 parts of 6mm down graded stone chips) at any elevation including roughening surface, cleaning, ramming, curing etccomplete (non-shrink hand grout using approved admixture) as per specification and as directed by the Engineer.	CUM	30				
803	Providing & grouting of pocket holes, pipe sleeves of any shape and size under base plates after erection of necessary structural steel work, machinery with mix 1:1(1 part cement : 1part sand) at any elevation including roughening surface, cleaning, ramming, curing etc complete (non-shrink flowable grout as per specification using approved admixture) as per specification and as directed by the Engineer.	CUM	50				
804	Providing & grouting of pocket holes, pipe sleeves of any shape and size under base plate after erection and alignment if necessary, structural steel work, machinery at any elevations including roughening surface, cleaning, ramming, curing, etcwith CobextraGP-2/CobextraGP-1/Pidigrout10/Pagel or equivalent all complete as per specifications. (Cost of all material and cleaning the pocket by compressed air shall be in the scope of the contractor).	CUM	23				
1000	BRICKWORK MASONRY INCLUDING SUPPLY OF MATERIAL, COST OF LABOUR ETC. COMPLETE, AS PER SPECIFICATIONS.						

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ST. NO	DESCRIPTION	UNIT	Qty	RATE	AMOUNT		
1001	Providing brick work in cement mortar 1:6 (1 part cement 6 parts coarse sand) in walls, chambers etc. in thickness varying from 230mm to 460mm at all depths, places and positions below plinth including raking out joints, curing, scaffolding etc. complete excluding plastering and painting.Using bricks of class designation 50kg/sqcm of nominal dimensions as per specification.	CUM	150				
1002	Providing brick work in cement mortar 1:6 (1 cement 6 coarse sand) in walls, chambers etc. in thickness 230mm at all heights, places and position above plinth including raking out joints, curing, scaffolding etc complete excluding plastering and painting.Using bricks of class designation 50kg/sqcm of nominal dimension.	CUM	450				
1003	Breaking of existing brick work at all levels including plastering, removing the rubbish up to a distance of 2KM including transportation, loading, unloading etc. all complete as directed by the engineer.	CUM	50				
1005	Supply and placing in position mild steel wire fabric of square mesh 25 mm size and wire diameter of 2 mm for encasing of steel sections in concrete including cutting, bending, fixing etc. complete.	SQM	350				
1100	DAMP PROOF COURSE INCLUDING ALL MATERIALS LABOUR, SHUTTERING, CENTERING, CURING ETC., COMPLETE WITH THICKNESS AS SPECIFIED/SHOWN ON DRAWINGS.						
1101	Damp Proof Course 50mm thk. 1:1.5:3 concrete (10mm down aggregate) with 2% of approved admixture of water proofing compound. Hot bitumen @ 1.7Kg./sqm shall be applied before & after the DPC as per specification.	SQM	100				
1200	CEMENT MORTOR PLASTER INCLUDING ALL MATERIALS SCAFFOLDING, CURING ETC. COMPLETE AS PER SPECIFICATION						
1201	Providing 12 mm thick plaster in cement mortar 1:6 on the even side of internal walls, finished to a smooth finish as per specification.	SQM	1250				

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ST. NO	DESCRIPTION	UNIT	Qty	RATE	AMOUNT
1202	Providing 18 mm thick plaster in cement mortar 1:6 on the uneven side of internal walls, with a smooth finish as per specification.	SQM	1500		
1203	Providing 20 mm thick plaster in two layers, under layer 14 mm thick in cement mortar 1:6 and top layer 6 mm thick in cement mortar 1:4 with approved water proofing compound on walls finished to a wooden float/smooth/rough finish as per specification.	SQM	1750		
1204	Providing screed/grading plaster of average 20 mm thickness in ratio 1:6 nominal by volume including finishing smooth and even etc. all complete at all levels above or below grade level.	SQM	750		
1205	Forming groove of uniform size from 12X12 mm upto 20X15 mm in plastered surface as per approved pattern, using wooden battens, including repair of the edges of plaster panel and finishing the groove etc. complete as per specification, drawing and the instructions of engineer in charge.	RM	250		
1300	FINISHES, PAINTING TO CONCRETE, PLASTERED SURFACES, SURFACE PREPARATION INCLUDING ALL MATERIALS, LABOUR, SCAFFOLDING ETC. ALL COMPLETE				
1301	Providing and applying 3 coats of water proof cement paint of approved make and color on exterior surface at all heights including material, labour, scaffolding, curing etc complete as per specification.	SQM	3000		
1800	MISCELLANEOUS				
1801	Providing and fixing PVC water stops 225mm wide, 6 mm thick.	RM	150		
1802	Providing 75mm thick anticorrosive layer laid to slope consisting of compacted crushed stone screenings, fine gravel, clean sand or similar material as directed by the Engineer, mixed in hot asphalt 10% by volume and rolled or compacted complete as per drawings and specifications, below fuel oil tanks and at such other places as per specifications and as directed by the Engineer.	SQM	500		

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ST. NO	DESCRIPTION	UNIT	Qty	RATE	AMOUNT		
1807	Fixing transformer rails including guide rails in concrete including joining of rails. Anchoring lugs etc. complete as per specification. Rate to include transportation of Rails from stores within the plant boundary to work spot, loading, unloading etc. complete all as per specifications & drawings. (Only Rail will be provided by BHEL under free issue)	MT	75				
1808	Laying of earthing mats/rods including transportation from yard stores, loading, unloading, cutting to length, welding etc. complete as per specification and as directed by Engineer-in-charge. (Only Earth mat rod will be provided by BHEL under free issue) (Excavation and back filling payable separately)	MT	150				
1810	Providing and fixing GI rungs in concrete/brick walls at all elevations including @ zinc coating shall not be less than 500 g/sqm all complete.	KG	250				
2000	FENCING AND GATES.						
2001	Supplying and erecting in position 2.4 m high PVC coated galvanised chain linked fencing of minimum 8 gauge (including PVC coating) of mesh size 75 mm and galvanised concertina. The diameter of the steel wire for chain link fencing excluding PVC coating shall not be less than 12 gauge. GI barbed wire fencing conforming to IS 298 at top of chain link fencing shall be provided with 4 stands of height of 600 mm including all accessories as per specification all complete.	SQM	500				
2002	Supply, fabrication and installing in position and testing galvanised MS Gates out of channels, joists, angles, flats, plates, pipes & sheets including stiffeners, bracings, fabricated hinges, MS Aldrops with locking arrangement, tempered steel pivot, guide track of MS Tee, ball bearing arrangements, castor wheels, etc. all complete as per drawing, specification and as directed by Engineer-in-charge with three coats of epoxy based paint etc complete as per drawing and specifications.	MT	7				
	TOTAL						

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ST. NO	DESCRIPTION	UNIT	Qty	RATE	AMOUNT
TOTAL CONTRACT VALUE :-----					
Note : In case VAT (Value Added Tax) is included to the above price.					
Please indicate the following (If no VAT is added please indicate as NIL)					
Refer clause 6.25.1 of Section VI.					
(i)	Value of VAT added in the quote Rs.....				
(ii)	The Rate of VAT adopted Rs.....				
(iii)	On what value VAT is worked out Rs.....				