

**MISHRA DHATU NIGAM LIMITED
P.O.KANCHANBAGH, HYDERABAD**

Part-II (PRICE BID)

**CIVIL WORKS INVOLVED IN CONSTRUCTION OF
20T, 30T, 60T & 90T FURNACE FOUNDATIONS,
CHIMNEY FOUNDATIONS, CONTROL ROOMS &
ALLIED WORKS, MIDHANI,
KANCHANBAGH, HYDERABAD-58.**

PURCHASE DEPARTMENT**Tender Notice No: MDN/PUR/AP2061086/ADVT/004/17-18****Date:- 04-04-2017****To,**

Dear Sir,

Sub: - CIVIL WORKS INVOLVED IN CONSTRUCTION OF 20T,30T, 60T & 90T FURNACE FOUNDATIONS, CHIMNEY FOUNDATIONS, CONTROL ROOMS & ALLIED WORKS, MIDHANI, - reg

1. Please find enclosed herewith a Tender Enquiry for the above, you are requested to furnish your offer in a sealed cover superscripting the envelope with name of work and last date of submission, along with EMD of Rs 2,60,000/- drawn in favour of MIDHANI. The tenders without EMD amount will be rejected; request for adjustment from pending bills will not be entertained. Estimated Value of work is Rs 104.26 lakhs.
2. Tender shall be submitted in tender box kept at corporate office on or before 25-04-2017 up to 10.30 hrs.
3. The period of completion of job will be 210 days in staggered manner from the date of handing over of site. Time is essence of the contract; contractor has to mobilize materials & labour to complete within stipulated time period. The timeline of each module is as follows:

Sl.No	Name of work	Time period from the date of handover of site
01	Civil works involved in construction of 60T furnace and allied works	60 days for main foundation work + 15 days for grouting/finishing work from the date of clearance from equipment supplier.
02	Civil works involved in construction of 30T furnace and allied works	60 days for main foundation work + 15 days for grouting/finishing work from the date of clearance from equipment supplier.
03	Civil works involved in construction of 90T furnace and allied works	60 days for main foundation work + 15 days for grouting/finishing work from the date of clearance from equipment supplier.
04	Civil works involved in construction of 20T furnace and allied works	60 days for main foundation work + 15 days for grouting/finishing work from the date of clearance from equipment supplier.

P.S. The overall period of 210 days (staggered days) includes overlap period between four furnace foundations referred above.

4. The tenderer shall inspect the site of work and understand the scope of work before quoting. No extra amount will be paid on account of misunderstanding either in scope of work, specification, drawings, site conditions etc.
5. All materials required for the work shall be arranged by the contractor unless until specified in Bill of Quantities.
6. The work shall be carried out as per MES-SSR-2009 specifications.
7. This is an item rate contract and the quantities are approximate, but payment will be made only on actual work done based on joint measurement.
8. Five R. A. Bills and one Final Bill will be paid for each module. The contractor has to furnish all material bills along with each bill (if any).
9. a) R.A Bill will be paid within 15 days from the date of certification of Engineer-in-charge. However, Final payment will be made within 30 days after satisfactory completion of work and certification by Engineer-in-charge.

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b) Apart from the R.A. bills for the work done, the contractor will be paid material advance against material brought to the site at the rate of 75% of purchased bill cost for structural steel, TMT steel reinforcement and cement (53 grade). However, while issuing advance to steel (reinforcement/structural) Engineer-in-charge holds the right to reduce 25% of quantity brought to the site and to limit within BOQ value.

10. a) **Security Deposit (S.D):** The successful tenderer has to submit 5% of Work order value as a security deposit in the form of D.D/ Bank Guarantee at the time of entering / signing the contract. Further, EMD deposited will be adjusted in 5% Security Deposit & the security deposited will be released after satisfactory completion of work and after certification of Engineer-In- Charge.

b) **Retention Money :** A sum of 5% of gross value of work order will be deducted from each running bill and final bill. The same will be released after the completion of defect liability period of 12 months and after certification of Engineer –In- Charge. Also, contractor can submit Bank Guarantee for equivalent amount in the prescribed format issued by nationalized or scheduled bank and same shall be valid for defect liability period + 3 months claim period.

c) **MOBILIZATION ADVANCE:** 10% of contract value will be given as mobilization advance against equivalent Bank Guarantee. Further, this mobilization advance will be given in two installment viz First installment 5% of contract value after mobilization of construction equipments and within 21 days from the date of agreement and second installment 5% after ascertaining by Engineer-in-charge that 10 % value of work executed by contractor. Further, this mobilization advance will bear interest of minimum 14% or as per MIDHANI directives, whichever is higher. This Bank Guarantee shall be released after equivalent amount of advance recovered in Three (RA) Running Account bills.

P.S:- (1) Contractor who wishes to Submit Bank guarantee shall be equivalent 10% mobilization advance +14% interest for contract period (OR)

If bank guarantee is submitted is equivalent to only 10% of contract value. Then, mobilization advance to be released will be 10% of contract value less 14% interest.

(2) Validity of BG shall be equivalent to contract period + 3months.

11. The security and safety rules of MIDHANI to be followed. The contractor shall take care of all labour laws regarding minimum wages, ESI, PF, C.A.R. Policy, Group Insurance etc., Midhani is no way responsible in this respect. Midhani is not liable for any claim in respect of any accidents during the work.

12. (a) MIDHANI reserves the right to operate partial or delete any item specified in BOQ without any compensation to contractor for the items un-operated or deleted.

(b) If at any time after acceptance of the tender MIDHANI feels that for any reasons whatsoever, if the whole or any part of the contract services is not required to be carried out, notice shall be given in writing of the fact to the contractor and upon receipt of such notice, the contractor shall stop the execution of such services as indicated in the notice forthwith. The contractor shall have no claim to any payment of compensation or otherwise whatsoever on account of any profit or advantage which he might have derived from the execution of the services in full, but which he did not derive in consequence of the foreclosing of the services / contract. Contractor shall be paid at contract rates for the full amount of the work executed including such additional services as may be rendered necessary by said foreclosing.

13. Any new items (viz. supply of material, labour, skilled works etc) will be paid as per (a) or (b) whichever is less:

a) As per MES-SSR 2016 rates with applicable Percentage Index at that time.

b) As per market rate analysis.

14. The contractor should not cause any loss or damage to MIDHANI property/or personnel, if any loss or damage is caused the cost of the same will be recovered from the bills by MIDHANI, which will be final.

15. The quantities are subjected to $\pm 20\%$ variation and the contractor has to carry the work on the same rates, terms and conditions within the variation limits prescribed.

16. If the contractor fails to receive the work order within a week time from the date of intimation to him or if the contractor does not start the work within 3-7 days from the date of handover of site, or if the work is abandoned / stopped without bringing proper notice to Engineer-in-charge, the contract will be terminated and balance work will be carried out at the cost and risk of contractor.

17. Liquidated Damages: - a) If the work is not completed within stipulated time, liquidated damages at 1% per week delay up to maximum of 10% total value of work will be deducted.
b) If the delays are not attributed to the contractor, the competent authority holds the right to waive off the L.D or reduce the L.D as the case may be.
18. Midhani reserves the right to penalize
a) If the contractor fails to submit the 5% Security deposit within the stipulated period, then penalty of Rs 1000 per day maximum of 10,000.00 will be collected and further delay will empower MIDHANI to termination of contract and apply risk purchase.
b) If the contractor fails to receive the work order within 3 days of intimation, then a penalty Rs 500 per day will be levied subjected to maximum of Rs 5000.00. Further delay will empower MIDHANI to termination of contract and apply risk purchase.
c) Contractor has to maintain "HINDRANCE REGISTER" which is to be certified by both MIDHANI Site engineer and contractor engineer before release of final bill.
19. The offer shall be valid for 3 months from the date of opening of tender.
20. Interested parties may attend tender opening on 25-04-2017 at 11:00 hrs.
21. Incomplete or partially filled tenders will be rejected. Also, conditional offers are liable for rejection. MIDHANI reserves the right to accept or reject any or all tenders without assigning any reasons.
22. Contractor has to maintain site record, hindrance record, record for steel, cement etc.
23. Site has to be cleaned by the contractor before handing over to MIDHANI after completing the work. The final bill will be processed only after obtaining site cleaning certificate from the Engineer-in-charge.
24. The contractor shall employ minimum one qualified & well experienced Engineer. In case if the contractor fails to employ qualified and experienced Engineers, MIDHANI will recover suitable penalty @ Rs 1000 per day or such amount as certified by Engineer-In-Charge.
25. The Earnest money deposit can be encashed if the tenderer withdraws his tender proposals / modifies / changes / alters / impairs / derogates the tender document on his own after the first cover is opened or within the subsistence of the validity period of offer or fails to accept the Letter of Award (LOA) issued by MIDHANI or fails to submit security deposit or fails to turn-up and execute contract agreement or fails to commence the work as per LOA. Such bidders will be banned subject to action as may be deemed fit. In case of unilateral revision or withdrawal of offer by the bidder as above, shall also result in rejection of bid without notice. If there is any authentic information about the intending tenderer having formed a cartel / submitted Non-earnest bids, the tender will be cancelled and the Earnest Money Deposit of all the tenderer shall be forfeited, besides initiating actions like banning as may be deemed fit.

Yours faithfully,
For Mishra Dhatu Nigam Limited

T.RaghuRam
Addl. General Manager (Purchase)

DECLARATIONS: - 1) I have seen the site and understood the full scope of work, specified in tender, BOQ, drawings etc.
2) I agree to return all the documents along with this offer.
3) I have taken into account of points circulated in Minutes of Pre bid Meeting circulated on MIDHANI website, if posted

CONTRACTOR
SIGNATURE AND SEAL

P.S;- 1. All Parties shall attend pre bid meeting on 12-04-2017 at 11.00Hrs PURCHASE DEPARTMENT.

EMPLOYER

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MODULE-I

BOQ for Civil foundation works for 60T furnace, chimney foundation & control room					
S.No.	Description of work	Qty	Unit	Rate	Amount
1	Earthwork in Excavation by mechanical means (hydraulic means) / manual means over area including disposal of excavated earth, lead upto 50 m from natural ground level and backfilling of soils wherever & whenever required as directed by E.I.C. Disposed earth to be leveled and neatly dressed. This item includes surface cleaning and site clearance.				
a	All types of soil				
i.	0 to -3.00 m depth	255	Cu.m		
ii.	-3.00 m to -4.50 m depth	38.00	Cu.m		
iii.	-4.50 m to -6.00 m depth	20	Cu.m		
b	All types of rock				
i.	0 to -3.00 m depth	50	Cu.m		
ii.	-3.00 m to -4.50 m depth	20	Cu.m		
iii.	-4.50 m to -6.00 m depth	15	Cu.m		
2	Carriage/Carting of excavated soils/rock by mechanical transport including loading, unloading, stacking and leveling for the required areas upto 1.50 km.				
a	All types of soils	250	Cu.m		
b	All types of Rocks	85	Cu.m		
3	Providing Plain Cement concrete in foundations filling and mass concrete Type d2 1:4:8 (40mm graded aggregate) including mixing, placing, compacting, ramming and curing.	21	Cu.m		
4	Providing Reinforcement cement concrete design mix in Foundations including rafts, footings, foundation beams, plinth beams, walls, basement slabs, base for columns etc. - M 25 (20mm graded aggregates) including mixing, placing, pumping, compacting, vibrating and curing.	145	Cu.m		
5	Providing Form work to sides of concrete bases, rafts, beams, Pillars, posts, structs, piers, columns, walls, slabs, staircase steps and stanchions etc – Flat	600	Sq.m		

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	Surfaces				
6	Supply and Fixing Mild steel bars 10 mm dia to 25mm dia, cut to length bend to shape required, including cranking, bending, spirally for hooping for columns, hooking ends and binding and including mild steel wire (enleaded) not less than 0.9mm dia are securing with clips. - TMT bars.	10000	Kg		
7	Providing & Constructing 230mm Brick Masonry in CM (1:6) (1 cement : 6 coarse Sand) at all levels including the cost of scaffolding, tools, tackles etc as per instructions of Engineer-in-charge.	15	Cu.m		
8	Providing & Plastering 20mm cement plaster in two coats under layer 10mm thick cement plaster 1:6 (1 cement : 6 coarse sand) and top layer of 5mm thick cement plaster 1:4 (1 cement : 4 coarse sand) finished rough with sponge.	130	Sq.m		
9	Providing 2 coats of OBD painting any shade, the cost includes cost of surface preparation, one coat of primer paint, 2 coats OBD, scaffolding, tools, tackles etc at all heights & levels.	130	Sq.m		
10	Providing and grouting with non-shrink cementitious grout material in required size of packings (Fosroc chemical: Conbextra GP2) as per the manufacturers specification.	4	Cu.m		
11	Labour charges for fixing MS Bolts using template, supplied by equipment supplier. The responsibility of civil contractor is to handover the bolts being embedded in foundation with perfect alignment and level to the equipment erection party.	7100	Kg		

12	Supply & fixing of structural steel - M.S Steel Insert plates, Angles, including caps, bases, splices etc. built-up from two or more beam or channel sections or angles with plates, including all lattice bars, stiffeners, gusset plates, kerb angles, channels and beams, purlins etc at all levels as per drawing. The cost of providing gas cutting including gas bottles, welding machines, welding rods , all tools required etc is in the scope of contractor.	1300	Kg		
13	Supply & fixing 6mm chequered plates on cable trenches including the cost of cutting to size, positioning, painting one coat primer and two coats of synthetic enamel paint. The cost also includes making handles with 12mm MS Rods for lifting purpose at all levels as per drawing. The cost of providing gas cutting machine, gas bottles, welding machine, welding rods, all tools required etc is in the scope of contractor.	600	Kg		
14	Providing & Fixing 2mm thick Aluminum Powder coated Windows & Doors with half novapan 12mm thick and half 5mm plain glass including door closer, two handles, two tower bolts & two stoppers, neoprene gasket complete etc. with standard sections. The cost includes closing gaps between wall & aluminum section with white cement or Aluminum angles as required at site (if any) as per the directions of Engineer-In-Charge.	10	Sq.m		
15	Labour charges for fixing of A.C./G.I./profile sheets at any height. The cost includes supply and fixing of bolts and washers and other misc. Items for fixing. The sheets will be issued free by MIDHANI.	22	Sq.m		

16	Providing & Fixing False Ceiling with Gypsum board 12mm thick including Aluminum grid 605mm x 605mm by supporting metal studs & adjustable 6mm MS hinges. (false ceiling boards will be supplied free of cost by MIDHANI). The cost includes cost of joining with gypsum tape and finishing as a seamless surface with Plaster of Paris and one coat of primer, two coats of luppum and two coats of OBD complete as per the instructions of Engineer-In-Charge.	20	Sq.m		
17	Providing & Fixing of 2mm thick PVC sheet flooring using full length sheets Polyfloor motelled finish inclusive of approved rubber based adhesive in floors, surface preparaton and neatly jointed finish complete. The cost also includes cost of leveling of undulated floor with Plaster of Paris etc	22	Sq.m		
18	Providing Water Proofing plastering of 20mm thick rich mortar C.M(1:4) in Main foundation including void sealing with pressure grouting at every 0.5m centre to centre both ways including mixing of water proofing compound as per manufacturer's specification (at all heights & levels and as per instruction of Engineer-in-Charge).	60	Sq.m		
Gross Total OF MODULE –I Rs =					

MODULE –II					
BOQ for Civil foundation works for 30T furnace					
S.No	Description of work	Qty	Unit	Rate	Amount
1	Earthwork in Excavation by mechanical means (hydraulic means) / manual means over area including disposal of excavated earth, lead upto 50 m from natural ground level and backfilling of soils wherever & whenever required as directed by E.I.C. Disposed earth to be leveled and neatly dressed. This item includes surface cleaning and site clearance.				
a	All types of soil				
i.	0 to -3.00 m depth	145	Cu.m		
b	All types of rock				
i.	0 to -3.00 m depth	10	Cu.m		
2	Carriage/Carting of excavated soils/rock by mechanical transport including loading, unloading, stacking and leveling for the required areas upto 1.50 km.				
a	All types of soils	120	Cu.m		
b	All types of Rocks	10	Cu.m		
3	Providing Plain Cement concrete in foundations filling and mass concrete Type d2 1:4:8 (40mm graded aggregate) including mixing, placing, compacting, ramming and curing.	15	Cu.m		
4	Providing Reinforcement cement concrete design mix in Foundations including rafts, footings, foundation beams, plinth beams, walls, basement slabs, base for columns etc. - M 25 (20mm graded aggregates) including mixing, placing, pumping, compacting, vibrating and curing.	75	Cu.m		

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5	Providing Form work to sides of concrete bases, rafts, beams, Pillars, posts, struts, piers, columns, walls, slabs, staircase steps and stanchions etc – Flat Surfaces	300	Sq.m		
6	Supply and Fixing Mild steel bars 10 mm dia to 25mm dia, cut to length bend to shape required, including cranking, bending, spirally for hooping for columns, hooking ends and binding and including mild steel wire (enleaded) not less than 0.9mm dia are securing with clips. - TMT bars.	6000	Kg		
7	Providing and grouting with non-shrink cementitious grout material in required size of packings (Fosroc chemical: Conbextra GP2) as per the manufacturers specification.	3	Cu.m		
8	Labour charges for fixing MS Bolts using template, supplied by equipment supplier. The responsibility of civil contractor is to handover the bolts being embedded in foundation with perfect alignment and level to the equipment erection party.	6000	Kg		
9	Supply & fixing of structural steel- M.S Steel Insert plates, Angles, including caps, bases, splices etc. built-up from two or more beam or channel sections or angles with plates, including all lattice bars, stiffeners, gusset plates, kerb angles, channels and beams etc at all levels as per drawing. The cost of providing gas cutting including gas bottles, welding machines, welding rods , all tools required etc is in the scope of contractor.	1000	Kg		

10	Supply & fixing 6mm chequered plates on cable trenches including the cost of cutting to size, positioning, painting one coat primer and two coats of synthetic enamel paint. The cost also includes making handles with 12mm MS Rods for lifting purpose at all levels as per drawing. The cost of providing gas cutting machine, gas bottles, welding machine, welding rods, all tools required etc is in the scope of contractor.	600	Kg		
11	Providing Water Proofing plastering of 20mm thick rich mortar C.M(1:4) in Main foundation including void sealing with pressure grouting at every 0.5m centre to centre both ways including mixing of water proofing compound as per manufacturer's specification (at all heights & levels and as per instruction of Engineer-in-Charge).	60	Sq.m		
12	Dismantling RCC including taking out reinforcement in ground floors, and stacking at 50m lead. Rate also including disposal upto lead of 500m.	35	Cu.m		
Gross Total OF MODULE -II Rs =					
MODULE -III					
BOQ for Civil foundation works for 90T furnace, chimney foundation.					
S.No	Description of work	Qty	Unit	Rate	Amount
1	Earthwork in Excavation by mechanical means (hydraulic means) / manual means over area including disposal of excavated earth, lead upto 50 m from natural ground level and backfilling of soils wherever & whenever required as directed by E.I.C. Disposed earth to be leveled and neatly dressed. This item includes surface cleaning and site clearance.				

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a	All types of soil				
i.	0 to -3.00 m depth	327.5	Cu.m		
ii.	-3.00 m to -4.50 m depth	38.00	Cu.m		
iii.	-4.50 m to -6.00 m depth	20	Cu.m		
b	All types of rock				
i.	0 to -3.00 m depth	55	Cu.m		
ii.	-3.00 m to -4.50 m depth	20	Cu.m		
iii.	-4.50 m to -6.00 m depth	15	Cu.m		
2	Carriage/Carting of excavated soils/rock by mechanical transport including loading, unloading, stacking and leveling for the required areas upto 1.50 km.				
a	All types of soils	310	Cu.m		
b	All types of Rocks	90	Cu.m		
3	Providing Plain Cement concrete in foundations filling and mass concrete Type d2 1:4:8 (40mm graded aggregate) including mixing, placing, compacting, ramming and curing.	28.5	Cu.m		
4	Providing Reinforcement cement concrete design mix in Foundations including rafts, footings, foundation beams, plinth beams, walls, basement slabs, base for columns etc. - M 25 (20mm graded aggregates) including mixing, placing, pumping, compacting, vibrating and curing.	182.5	Cu.m		
5	Providing Form work to sides of concrete bases, rafts, beams, Pillars, posts, structs, piers, columns, walls, slabs, staircase steps and stanchions etc – Flat Surfaces	750	Sq.m		

6	<p>Supply and Fixing Mild steel bars 10 mm dia to 25mm dia, cut to length bend to shape required, including cranking, bending, spirally for hooping for columns, hooking ends and binding and including mild steel wire (enleaded) not less than 0.9mm dia are securing with clips. - TMT bars.</p>	13000	Kg		
7	<p>Providing and grouting with non-shrink cementitious grout material in required size of packings (Fosroc chemical: Conbextra GP2) as per the manufacturers specification.</p>	5.5	Cu.m		
8	<p>Labour charges for fixing MS Bolts using template, supplied by equipment supplier. The responsibility of civil contractor is to handover the bolts being embedded in foundation with perfect alignment and level to the equipment erection party.</p>	10100	Kg		
9	<p>Supply & fixing of structural steel- M.S Steel Insert plates, Angles, including caps, bases, splices etc. built-up from two or more beam or channel sections or angles with plates, including all lattice bars, stiffeners, gusset plates, kerb angles, channels and beams etc at all levels as per drawing. The cost of providing gas cutting including gas bottles, welding machines, welding rods , all tools required etc is in the scope of contractor.</p>	1500	Kg		

10	Supply & fixing 6mm chequered plates on cable trenches including the cost of cutting to size, positioning, painting one coat primer and two coats of synthetic enamel paint. The cost also includes making handles with 12mm MS Rods for lifting purpose at all levels as per drawing. The cost of providing gas cutting machine, gas bottles, welding machine, welding rods, all tools required etc is in the scope of contractor.	900	Kg		
11	Providing Water Proofing plastering of 20mm thick rich mortar C.M(1:4) in Main foundation including void sealing with pressure grouting at every 0.5m centre to centre both ways including mixing of water proofing compound as per manufacturer's specification (at all heights & levels and as per instruction of Engineer-in-Charge).	90	Sq.m		
12	Dismantling RCC including taking out reinforcement in ground floors, and stacking at 50m lead. Rate also including disposal upto lead of 500m.	35	Cu.m		
Gross Total OF MODULE-III Rs =					

MODULE -IV
BOQ for Civil foundation works for 20T furnace, chimney foundation & control room

S.No.	Description of work	Qty	Unit	Rate	Amount
1	Earthwork in Excavation by mechanical means (hydraulic means) / manual means over area including disposal of excavated earth, lead upto 50 m from natural ground level and backfilling of soils wherever & whenever required as directed by E.I.C. Disposed earth to				

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	be leveled and neatly dressed. This item includes surface cleaning and site clearance.				
a	All types of soil				
i.	0 to -3.00 m depth	255	Cu.m		
ii.	-3.00 m to -4.50 m depth	38.00	Cu.m		
iii.	-4.50 m to -6.00 m depth	20	Cu.m		
b	All types of rock				
i.	0 to -3.00 m depth	50	Cu.m		
ii.	-3.00 m to -4.50 m depth	20	Cu.m		
iii.	-4.50 m to -6.00 m depth	15	Cu.m		
2	Carriage/Carting of excavated soils/rock by mechanical transport including loading, unloading, stacking and leveling for the required areas upto 1.50 km.				
a	All types of soils	250	Cu.m		
b	All types of Rocks	85	Cu.m		
3	Providing Plain Cement concrete in foundations filling and mass concrete Type d2 1:4:8 (40mm graded aggregate) including mixing, placing, compacting, ramming and curing.	21	Cu.m		
4	Providing Reinforcement cement concrete design mix in Foundations including rafts, footings, foundation beams, plinth beams, walls, basement slabs, base for columns etc. - M 25 (20mm graded aggregates) including mixing, placing, pumping, compacting, vibrating and curing.	145	Cu.m		
5	Providing Form work to sides of concrete bases, rafts, beams, Pillars, posts, structs, piers, columns, walls, slabs, staircase steps and stanchions etc – Flat Surfaces	600	Sq.m		

6	Supply and Fixing Mild steel bars 10 mm dia to 25mm dia, cut to length bend to shape required, including cranking, bending, spirally for hooping for columns, hooking ends and binding and including mild steel wire (enleaded) not less than 0.9mm dia are securing with clips. - TMT bars.	10000	Kg		
7	Providing & Constructing 230mm Brick Masonry in CM (1:6) (1 cement : 6 coarse Sand) at all levels including the cost of scaffolding, tools, tackles etc as per instructions of Engineer-in-charge.	15	Cu.m		
8	Providing & Plastering 20mm cement plaster in two coats under layer 10mm thick cement plaster 1:6 (1 cement : 6 coarse sand) and top layer of 5mm thick cement plaster 1:4 (1 cement : 4 coarse sand) finished rough with sponge.	130	Sq.m		
9	Providing 2 coats of OBD painting any shade, the cost includes cost of surface preparation, one coat of primer paint, 2 coats OBD, scaffolding, tools, tackles etc at all heights & levels.	130	Sq.m		
10	Providing and grouting with non-shrink cementitious grout material in required size of packings (Fosroc chemical: Conbextra GP2) as per the manufacturers specification.	4	Cu.m		
11	Labour charges for fixing MS Bolts using template, supplied by equipment supplier. The responsibility of civil contractor is to handover the bolts being embedded in foundation with perfect alignment and level to the equipment erection party.	7100	Kg		

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12	Supply & fixing of structural steel - M.S Steel Insert plates, Angles, including caps, bases, splices etc. built-up from two or more beam or channel sections or angles with plates, including all lattice bars, stiffeners, gusset plates, kerb angles, channels and beams, purlins etc at all levels as per drawing. The cost of providing gas cutting including gas bottles, welding machines, welding rods , all tools required etc is in the scope of contractor.	1300	Kg		
13	Supply & fixing 6mm chequered plates on cable trenches including the cost of cutting to size, positioning, painting one coat primer and two coats of synthetic enamel paint. The cost also includes making handles with 12mm MS Rods for lifting purpose at all levels as per drawing. The cost of providing gas cutting machine, gas bottles, welding machine, welding rods, all tools required etc is in the scope of contractor.	600	Kg		
14	Providing & Fixing 2mm thick Aluminum Powder coated Windows & Doors with half novapan 12mm thick and half 5mm plain glass including door closer, two handles, two tower bolts & two stoppers, neoprene gasket complete etc. with standard sections. The cost includes closing gaps between wall & aluminum section with white cement or Aluminum angles as required at site (if any) as per the directions of Engineer-In-Charge.	10	Sq.m		
15	Labour charges for fixing of A.C./G.I./profile sheets at any height. The cost includes supply and fixing of bolts and washers and other misc. Items for fixing. The sheets will be issued free by MIDHANI.	22	Sq.m		

16	Providing & Fixing False Ceiling with Gypsum board 12mm thick including Aluminum grid 605mm x 605mm by supporting metal studs & adjustable 6mm MS hinges. (false ceiling boards will be supplied free of cost by MIDHANI). The cost includes cost of joining with gypsum tape and finishing as a seamless surface with Plaster of Paris and one coat of primer, two coats of luppum and two coats of OBD complete as per the instructions of Engineer-In-Charge.	20	Sq.m		
17	Providing & Fixing of 2mm thick PVC sheet flooring using full length sheets Polyfloor motelled finish inclusive of approved rubber based adhesive in floors, surface preparaton and neatly jointed finish complete. The cost also includes cost of leveling of undulated floor with Plaster of Paris etc	22	Sq.m		
18	Providing Water Proofing plastering of 20mm thick rich mortar C.M(1:4) in Main foundation including void sealing with pressure grouting at every 0.5m centre to centre both ways including mixing of water proofing compound as per manufacturer's specification (at all heights & levels and as per instruction of Engineer-in-Charge).	60	Sq.m		
19	Dismantling RCC including taking out reinforcement in ground floors, and stacking at 50m lead. Rate also including disposal upto lead of 500m.	30	Cu.m		
Gross Total OF MODULE –IV Rs =					

SUMMARY :

TOTAL AMOUNT OF MODULE – I =
TOTAL AMOUNT OF MODULE – II =
TOTAL AMOUNT OF MODULE – III =
TOTAL AMOUNT OF MODULE – IV =

GRAND TOTAL AMOUNT =

(In words Rupees

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