

TENDER

TENDER NOTIFICATION NO. - FCX/20211037

FOR

**Construction of Machine foundation for MG set within
factory area.**

PRICE BID



FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION

BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)

BHOPAL – 462 022 (M.P)

PREAMBLE OF PRICE BID

1.0 This Price Bid consists of Three Schedule:

1.1 Schedule A

Schedule A consists of Two Annexure:

The evaluation currency for this tender shall be INR. Total price of the package combining **Annexure I & Annexure II** to be quoted by the bidders which shall form the basis for comparison for deciding lowest bid. For further processing and award, total quoted amount by the L1 (lowest) bidder for the package shall be used for deriving individual item rate by BHEL based on % (percentage) weightage specified at Annexure I & Annexure II of Price Schedule.

1.2 Schedule B

It consists of details of free issue materials by BHEL.

1.3 Schedule C

It consists of details of tools & tackles provided by BHEL either on higher basis or on free of cost basis which are mentioned in price bid.

2.0 The work to be carried out under the contract shall, except as otherwise provided in tender conditions, include all labour, materials, tools, plant, equipment, and transport which may be required in preparation of and for full & entire execution and completion of the Works. The descriptions given in the Schedule of Quantities shall, unless otherwise stated, be held to include waste on materials, carriage and cartage, carrying in return of empties, hoisting, setting, fitting and fixing in position and all other labours necessary in and for the full and entire execution and completion as aforesaid in accordance with good practice and recognized principles as laid down in Technical Specification & elsewhere in Tender Specification.

3.0 The price bid should not contain any condition. Conditional price Bids shall be summarily rejected.

4.0 The bidder should not leave any column blank in Price Schedules.

5.0 Price Quoted shall include all taxes, & duties except **GST**.

6.0 Unless otherwise specified in the items involving cement, reinforcement steel or structural steel, these items shall be issued free of cost by BHEL.

FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION**Price Schedule**

Name of work: Construction of Machine foundation for MG set within factory area.

	Details ANNEXURE	Total Amount (in Rs.) (To be quoted by bidder here)
	Total price of the package combining of Annexure-I & Annexure-II.	

Amount in words: Rs.

.....

.....

NOTE:

- 1 The evaluation currency for this tender shall be INR. Total price of the package combining of **Annexure-I & Annexure-II** to be quoted by the bidders which shall form the basis of comparison for deciding lowest bid.
For further processing & award total quoted Amount for the package by the L1 (lowest) bidder shall be used for deriving Individual item rate by BHEL based on % (percentage) weightage specified at Annexure-I , Annexure-II & Annexure-III of Price Schedule.
- 2 In case of “discrepancy in words and figures”, the same shall be adjusted in accordance with following rule:
 - (a) If, in the price structure quoted for the required goods/ services/ works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of the purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly.
 - (b) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected.
 - (c) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject of (a) and (b) above.
 - (d) If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date upto which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the purchaser, the bid is liable to be ignored.

TENDER NOTIFICATION NO. - FCX/20211037
FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION
Price Schedule A : Anneuxre - I

Name of work : Construction of Machine foundation for MG set within factory area.

Sr. No.	Based on DSR'12	Item Description	Qty.	Unit	% Weightage of item amount against total amount
1		Carriage of material up to 1 km lead by Mechanical transport including, loading, unloading & stacking -1 Km lead			
	1.1.1	a) Lime,Moorum, building rubbish	38.00	cum	0.1500
	1.1.2	b) Earth	258.00	cum	1.2500
	1.1.4	c) Excavated Rock	148.00	cum	1.1500
	1.1.11	d) Steel	5.00	Tonne	0.0200
2		Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m; disposed earth to be levelled and neatly dressed.			
	2.6.1	All kinds of soil.	184.00	cum	1.4000
3		Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed:			
	2.7.1	a) Ordinary rock.	74.00	cum	0.8600
	2.7.3	b) Hard Rock (blasting prohibited).	74.00	cum	2.1300
4		Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.			
	2.8.1	All kinds of soil.	36.00	cum	0.2800
5	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations, etc. in layers not exceeding 20 cm in depth : consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5m	110.00	cum	0.5400

TENDER NOTIFICATION NO. - FCX/20211037
FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION
Price Schedule A : Anneuxre - I

Name of work : Construction of Machine foundation for MG set within factory area.

Sr. No.	Based on DSR'12	Item Description	Qty.	Unit	% Weightage of item amount against total amount
6		Extra for every additional lift of 1.5 m or part thereof in.			
a)	2.26.1	All kinds of soil.	64.00	cum	0.1300
b)	2.26.2	Ordinary or hard rock.	148.00	cum	0.5400
7	**	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: (Cement free issue by the Deptt.)			
a)	4.1.3	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	2.50	cum	0.3800
b)	4.1.6	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size).	9.00	cum	1.3400
8	4.12	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification. Note: - Difference in dosing of water proofing compound as per the manufacturer's recommendation from the one indicated against the item shall not attract any extra claim by the contractor.	411.00	per 50kg cement	0.7500
9	**	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work upto plinth level: (Cement free issue by the Deptt.)			
	5.1.3	1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	34.00	cum	5.5200
10		Centering and shuttering including strutting, propping, etc. and removal of form for:			
	5.9.1	a) Foundations, footings, bases of columns, etc. for mass concrete.	78.00	sqm	0.7100
	5.9.2	b) Walls (any thickness) including attached pilasters, butteresses, plinth and string courses, etc.	32.00	sqm	0.5100
	5.9.3	c) Suspended floors, roofs, landings, balconies and access platform.	8.00	sqm	0.1400

Seal and Signature of Bidder

5

Seal and Signature of BHEL Authority

TENDER NOTIFICATION NO. - FCX/20211037
FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION
Price Schedule A : Anneuxre - I

Name of work : Construction of Machine foundation for MG set within factory area.

Sr. No.	Based on DSR'12	Item Description	Qty.	Unit	% Weightage of item amount against total amount
	5.9.5	d) Lintels, beams, plinth beams, girders, bressumers and cantilevers.	16.00	sqm	0.2400
	5.9.6	e) Columns, pillars, piers, abutments, posts and struts. (Note :- The contractor is supposed to bring shuttering materials for the work. If due to any urgency ,BHEL shuttering materials are used , deduction @ 50 % of schedule rate of this item.)	23.00	sqm	0.4700
11	Ana. 5.22A.6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. (Reinforcement bars will be supplied free of cost from BHEL store). Thermo-Mechanically Treated bars.(TMT bars)	13680.00	kg.	5.9400
12	5.28	Providing and fixing in position 12 mm thick bitumen impregnated fibre board conforming to IS : 1838 including cost of primer, sealing compound in expansion joints.	4.00	per cm depth per 100m	0.0900
13	5.31	Extra for laying reinforced cement concrete in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc., complete. Note : The quantity will be calculated by multiplying the depth measured from the subsoil water level up to the centre of gravity of the R.C.C. under subsoil water with the quantity of R.C.C. in cubic metre executed under subsoil water. The depth of centre of gravity shall be reckoned correct to 0.1m, 0.05 m or more shall be taken as 0.1 m and less than 0.05 m ignored. No extra payment shall be made for placing reinforcement or centering & shuttering under sub-soil water conditions.	10.00	cum	0.1900
14		Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable /recoverable separately.			

TENDER NOTIFICATION NO. - FCX/20211037
FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION
Price Schedule A : Anneuxre - I

Name of work : Construction of Machine foundation for MG set within factory area.

Sr. No.	Based on DSR'12	Item Description	Qty.	Unit	% Weightage of item amount against total amount
	5.34.1	Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum)	171.00	cum	0.0500
15	5.35	Add for using extra cement in the items of design mix over and above the specified cement content therein.	34.20	quintal	0.0200
16	5.37	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering , shuttering, finishing and reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer-in-charge. (Note :- Cement concent considered in ths item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately).			
	5.37.1	All works upto plinth level	171.00	cum	36.0200
17	10.1 Ana	Structural steel work in single section fixed with or without connecting plate including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.(Structural steel & Primer free issue from BHEL stores).	670.00	kg	0.3100

TENDER NOTIFICATION NO. - FCX/20211037
FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION
Price Schedule A : Anneuxre - I

Name of work : Construction of Machine foundation for MG set within factory area.

Sr. No.	Based on DSR'12	Item Description	Qty.	Unit	% Weightage of item amount against total amount
18	10.2 Ana	Structural steel work welded /riveted/ bolted in built up sections, trusses and framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete. (Structural steel & primer will be issued free of cost from BHEL store)	1562.00	kg	1.1700
19	**	12 mm cement plaster of mix:(Cement free issue by the Deptt.)			
	13.4.2	1 : 6 (1 cement : 6 coarse sand) .	38.00	sqm	0.2200
20	**	15 mm cement plaster on the rough side of single or half brick wall of mix: (Cement free issue by the Deptt.)			
	13.5.2	1 : 6 (1 cement : 6 coarse sand).	38.20	sqm	0.2600
21		Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer-in-charge.			
	15.2.1	a) 1:3:6 or richer mix.	9.00	cum	0.3500
	15.2.2	b) 1:4:8 or leaner mix.	1.50	cum	0.0400
22	15.3	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.	28.00	cum	1.6100
23		Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.			
	15.7.4	In cement mortar.	10.00	cum	0.3300
24		Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge:			
	15.9.2	In cement mortar	4.00	cum	0.1600

TENDER NOTIFICATION NO. - FCX/20211037
FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION
Price Schedule A : Anneuxre - I

Name of work : Construction of Machine foundation for MG set within factory area.

Sr. No.	Based on DSR'12	Item Description	Qty.	Unit	% Weightage of item amount against total amount
25		Dismantling steel work in single sections including dismembering and stacking within 50 metres lead in:			
	15.17.2	Channels, angles, tees and flats	400.00	kg	0.0200
26	15.19	Dismantling steel work manually/ by mechanical means in built up sections without dismembering and stacking within 50 metres lead as per direction of Engineer-in-charge.	4000.00	kg	0.2500
27		Dismantling roofing including ridges, hips valleys and gutters, etc., and stacking the material within 50 metres lead of:			
	15.28.2	Asbestos sheet	30.00	Sqm	0.0400
28	**	Providing and laying integral cement based treatment for water proofing on horizontal surface at all depth below ground levels for underground structures as directed by Engineer-in-Charge and consisting of: I) 1st layer of 22 mm to 25 mm thick approved and specified rough stone slab over a 25 mm thick base of cement mortar 1 : 3 (1 cement : 3 coarse sand) mixed with water proofing compound conforming to IS: 2645 in the recommended proportion over the levelling course (levelling course to be paid separately). Joints sealed and grouted with cement slurry mixed with water proofing compound. II) 2nd layer of 25 mm thick cement mortar 1 : 3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportions. III) Finishing top with stone aggregate of 10 mm to 12 mm nominal size spreading @ 8cudm/sqm thoroughly embedded in the 2nd layer:			
	22.1.1	Using rough kota stone (Cement free issue by Deptt.)	45.00	sqm	1.3000

TENDER NOTIFICATION NO. - FCX/20211037
FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION
Price Schedule A : Anneuxre - I

Name of work : Construction of Machine foundation for MG set within factory area.

Sr. No.	Based on DSR'12	Item Description	Qty.	Unit	% Weightage of item amount against total amount
29	**	Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing specified stone slab 22 mm to 25mm thick with cement slurry mixed with water proofing compound conforming to IS:2645 in recommended proportions with a gap of 20mm (minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:3 (1 cement:3 coarse sand) 20mm thick with neat cement punning mixed with water proofing compound in recommended proportion complete at all levels and as directed by engineer -in-charge.			
	22.2.1	Using rough kota stone (Cement free issue by Deptt.)	156.00	sqm	5.3800
Total : Annexure I					72.26

FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION
Price Schedule A : Anneuxre - II

Name of work : Construction of Machine foundation for MG set within factory area.

Sr. No.	Item Description	Qty.	Unit	% Weightage of item amount against total amount
1	Making holes in the existing concrete floor/pedestal through core cutting up to the required depth and as per the instruction of Engineer-in-charge. (All equipment like core cutter etc. to be arranged by the contractor.) Diametre upto 100 mm	20.00	per metre depth	4.1297
2	Brick work with Ghol bricks of class designation 50 and above in foundation and plinth in cement mortar 1:6 (1 cement : 6 coarse sand) : (Cement free issue by the Deptt.)	4.50	cum	1.5120
3	Half brick masonry with Ghol bricks of class designation 50 and above in foundations and plinth in Cement mortar 1 : 4 (1 cement : 4 coarse sand) . (Cement free issue by the Deptt.)	10.00	sqm	0.6046
4	Fabrication & Erection of temporary barricade with structural steel members in single/built up sections , fixing them with non-AC/A.C./G.S. sheets along with all necessary fittings/ fixtures for construction of machine foundation so as to prevent fouling of adjoining / nearby areas with dirt/dust/earth etc., followed by dismantling the above complete including dismantling and stacking within a lead of 50m. (Supply of non-AC/ AC/GS sheets and structural steel free issue by BHEL) (Unit: Peripheral length multiplied by height)	165.00	sqm	1.7063
5	Supplying and filling in plinth with stone dust under floors, including watering, ramming, consolidating and dressing complete.	13.50	cum	0.5546

FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION
Price Schedule A : Anneuxre - II

Name of work : Construction of Machine foundation for MG set within factory area.

Sr. No.	Item Description	Qty.	Unit	% Weightage of item amount against total amount
6	Supply of pouring of grouting cement of Sika/Cico/Pidilite/ Ultratech or equivalent under gear box after mixing, cleaning and vibration complete. Total weight of grouting cement shall be 5000 kg. Note: Payment shall be made on dry weight of grouting cement.	15600.00	Kg	19.2355
Total : Annexure II				27.74
Total : Annexure I + Annexure II				100.00

Note.1 . Making of pocket for bolting of machines to foundation shall be under the contractor scope. Material for making of pocket shall be provided/arranged by BHEL

FACTORY CIVIL CONSTRUCTION & MAINTENANCE DIVISION
Price Schedule B

Name of work : Construction of Machine foundation for MG set within factory area.

The following material free issue from BHEL stores.

- 1 Cement
- 2 Reinforcement steel
- 3 Red Oxide primer
- 4 Structural steel

Price Schedule C

Name of work : Construction of Machine foundation for MG set within factory area.

- 1 Hire charges.
 - i) Drill machine @ 252.00/- per day
 - ii) Jack Hammer @108.00/- per day
 - 2 Drill machine/jack hammer rod Rs. 100.00 per rod
 - 3 Electricity charges at Rs.66.00/- per M.T. of fabrication of structural steel
- } (Subject to availability)