



BHARAT HEAVY ELECTRICALS LIMITED
ELECTRO PORCELAINS DIVISION
BANGALORE : 560 012

TENDER DOCUMENT

(PART-B)
(Price Bid Format)

Construction of anganwadi at Muthur village in Doddabalapura Taluk and construction of boys and girls toilet at Government Middle School, Jalahalli, Bangalore under CSR project 2015-16.

DEPARTMENT : WORKS ENGINEERING
SECTION : CIVIL

PART B (PRICE BID FORMAT)**SCHEDULE - A**Name of the work: Construction of Anganwadi at Muthur village, Doddabalapura Taluk under CSR project 2015-16.

SL.NO.	Description	Unit	Qty	Rate	Amount.
1.	Dismantling existing structures comprising of masonry, concrete, wood work. Steel work (minor) including T & P and scaffolding wherever required, sorting the dismantled materials, disposal of unservicable materials safely and stacking the servicable materials with all leads upto 1000m and lift 1.5m etc complete.	cum	20.00		
2	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking the clods etc complete.	cum	45.90		
3	Providing and filling in foundation soling with granite/ trap broken metal 100mm and downsize, with approved sand including hand packing, ramming, watering includnig cost of all materials and labour with all lead and lift etc complete.	cum	6.89		
4	Providing and laying in position plain cement concrete 1:4:8 using 40mm and downsize graded granite metal coarse aggregate, machine mixed, concrete laid in layers not exceeding 15cms thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing etc complete. Excluding the cost of cement, the required cement will be supplied by BHEL at free of cost.	cum	11.59		
5	Providing and constructing granite size stone masonry in superstructure and substructure with cement mortar 1:6, edges of stones chistle dressed in course not less than 15cms high, bond stones at every 2m apart in each course including cost of materials, labour, scaffolding, curing etc complete. Excluding the cost of cement, the required cement will be supplied by BHEL at free of cost.	cum	68.18		
6	Providing and laying in position plain cement concrete of mix M20 (1:1.5:3) using 20mm and downsize graded granite metal, machine mixed, concrete laid in layers not exceeding 15cms. thick, well compacted, in foundation, plinth and cills, including the cost of all materials, labour, HOM of machiery, curing etc complete. Excluding the cost of cement, the required cement will be supplied by BHEL at free of cost.	cum	15.47		
7	Providing and constructing burnt brick masonry with approved quality class designated 50 with cement mortar 1:4 for basement and superstrucure including cost of materials, labour charges, scaffolding, curing etc complete. The sample of brick should be certified by Engineer-in-charge before construction work. Excluding the cost of cement, the required cement will be supplied by BHEL at free of cost.	cum	34.64		
8	Providing and laying in position reinforced cement concrete (RCC) of design mix M20 (1:1.5:3) using 20mm and downsize graded granite metal, machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation, plinth and ground floor level for slabs, staircases, lintels, retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing etc complete. Excluding the cost of cement, the required cement will be supplied by BHEL at free of cost.	cum	18.89		

9	Labour charges for providing TMT steel reinforcement for RCC work including straightening, cutting, bending, hooking, placing in position, lapping and/ or welding wherever required, tying with binding wire and anchoring to the adjoining members, wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery etc complete. The design of reinforcement should be certified by Engineer-in-charge before commencement of bar binding work. The required steel reinforcement will be supplied by BHEL at free of cost.	MT	2.83		
10	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness above 200mm including cost of all materials, labour etc complete.	sqm	210.28		
11	Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry and concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding including cost of all materials, labour, curing etc complete. Excluding the cost of cement, the required cement will be supplied by BHEL at free of cost.	sqm	574.16		
12	Labour charges for providing ceramic tiles of approved make, shade and size of flooring, treads of steps and landings laid on a bed of 12mm thick, using Roak cement or cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labours, curing etc complete. The required tiles and cement will be supplied by BHEL at free of cost. The supply of Roak Cement will be under the scope of the contractor.	sqm	77.76		
13	Filling earthwork (excluding rock) in sides of foundation upto plinth in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour etc complete.	cum	60.36		
14	Providing and applying two coats of paint (distemper/ enamel paint/ exterior wall paints/ emulsion/ all types of primers) of ASIAN make and approved shade including priming coats with approved quality suitable primer after thoroughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of all materials, our etc complete. Original Invoice of purchase of paint should be submitted to BHEL as a proof of Authenticacy.	sqm	412.36		
15	Providing and fixing white vitreous china clay (Make: Parryware, Hindustan, CERA, ROCA, Hindware) Indian water closet (Orrisa pan) S or P trap including fixing flushing cistern with all fittings, CI/ MS brackets, flush pipe, fittings and clamps, stop cock, angle cock, overflow arrangements, couplings, nahni trap, painting of fittings and brackets, cutting and making grooves on the wall/ floor/ ceiling wherever required, etc complete. Original Invoice of purchase of IWC should be submitted to BHEL as a proof of Authenticacy.	each	1.00		
16	Providing and fixing white vitreous china clay, flat back (Make: Parryware, Hindustan, CERA, ROCA, Hindware) wash basin size 630 X 450mm with a pair of 15mm CP brass pillar taps with CI/ MS brackets, waste coupling, waste pipe, connecting pipe, cutting and making grooves in the wall and floor wherever required, including cost of materials, labour etc complete. Original Invoice of purchase of Wash Basin should be submitted to BHEL as a proof of Authenticacy.	each	2.00		

17	Providing and fixing to wall ceiling and floor 20mm diameter GI pipe of B class and of make TATA, Suryaprakash, Appolo or Jindal including cutting, threading and also making grooves in the wall, including providing necessary fittings. Fixing to wall, ceiling, floor, trenches etc complete.	M	40.00		
18	Providing and fixing in position CP brass bib cock of (Neta, Leader, Laquar, Kohinoor, Viking make) and quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads etc complete.	each	10.00		
19	Providing and fixing in position brass stop cock of (Neta, Leader, Laquar, Kohinoor, Viking make) and quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads etc complete.	each	5.00		
20	Providing and fixing to wall, ceiling and floor (including trenches), low density polyethylene pipes 6.00kgf/ sqcm of dia 75mm to 110mm, make Oriplast, Aashirwaad or Prince, fixing with special flange, compression type fittings, joint sealants, wall clips, making grooves in the wall, ceiling and floor, including cost of all material, labour charges etc complete.	M	50.00		
21	Providing and fixing in position 20mm thick jet black granite slab as urinal partition, polished on both sides upto a height of 1.5m top edge rounded up, edges chamfered, fixed between two adjacent urinals by making proper grooves in wall and floor tiles fixed using CM 1:4 including the cost of all materials and labour etc complete. The required cement only will be supplied by BHEL for free of cost.	sqm	1.80		
22	Providing and laying in position 40mm thick jet black granite for kitchen platform one side polished laid over RCC slab using CM 1:4 cutting to required shape and size and making provisions and openings for sink fixing and making hole for gas pipes including the cost of making nosing including the cost of all materials and labour etc complete. The required cement only will be supplied by BHEL for free of cost.	sqm	3.75		
23	Providing and placing on terrace. Polythylene water storage tanks of 1000 litres capacity, Syntex or equivalent make (with approval of Engineer-incharge) with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes including the cost of all materials, labour, transport charges, HOM of equipments and testing etc complete.	Nos.	1.00		
24	Providing and fixing in position aluminium ventilators with 5mm thick glass louvers as per sample ventilator shown with approved quality of fixtures. Louvers frames revitted in the assembled frame stiffened with end clips at corners angles etc. and fixed to wall, lintels floors, beam/ cills, as the case may be necessary with necessary steel screws, raul plugs, or wooden gutties including cutting masonry or concrete and making grooves in the original surface using cement mortar 1:4 etc complete.	sqm	1.08		

25	Labour charges for fixing in position available doors, windows and ventilators including frames and including the cost of all welding works, carpentary works, masonry and concrete breaking and fixing work. The required doors and windows will be supplied by BHEL at free of cost.	each	11.00		
26	Providing and fixing Syntax make PVC doors including frames of required shade, shape and size, corners properly jointed and including the cost of all fitting and fixtures etc complete.	sqm	1.58		
27	Providing and filling red earth brought from outside and compacting, ramming after settling the soil with water including the cost of transportation, all materials, labour etc complete.	cum	140.00		
				SUB TOTAL	
Taxes, if any (i)					
(ii)					
(iii)					
				GRAND TOTAL	

(Rupees _____)

Note:

- 1 **Taxes and/or duties, if any may be quoted saperately, otherwise the rates quoted will be considered as inclusive of all the taxes and duties and no additional claims in this regard will be considered later.**
- 2 Before quoting, the contractors are advised to meet the engineer-in-charge, inspect the work spot and understand the scope of work clearly.
- 4 Supply of materials coming under BHEL scope will be issued at BHEL. Vehicle will be provided by BHEL. Contractor has to arrange for loading, unloading and safe upkeep of materials issued by BHEL.
- 5 Contractors should arrange safe and secure place for storing the materials issued by BHEL. For any theft/ loss of materials, contractor will be responsible and cost of the same will be recovered from the contractor's bills.
- 6 Contractor should return back unused/ scrap generated (only for materials supplied by BHEL).
- 7 All safety precautions to be taken in view of close proximity of school by providing sheet barricade around the construction area.

Signature of the contractor

Name: _____

Address: _____

Contact No.: _____

E-mail: _____

PART B (PRICE BID FORMAT)**SCHEDULE - B**

Name of the work: Construction of boys and girls toilet in Government Middle School in Jalahalli, Bangalore urban district under CSR project 2015-16.

SL.NO.	Description	Unit	Qty	Rate	Amount.
1.	Dismantling existing structures comprising of masonry, concrete, wood work. Steel work (minor) including T & P and scaffolding wherever required, sorting the dismantled materials, disposal of unservicable materials safely and stacking the servicable materials with all leads upto 1000m and lift 1.5m etc complete.	cum	8.40		
2	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking the clods etc complete.	cum	29.70		
3	Providing and filling in foundation soling with granite/ trap broken metal 100mm and downsize, with approved sand including hand packing, ramming, watering includnig cost of all materials and labour with all lead and lift etc complete.	cum	4.46		
4	Providing and laying in position plain cement concrete 1:4:8 using 40mm and downsize graded granite metal coarse aggregate, machine mixed, concrete laid in layers not exceeding 15cms thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing etc complete. Excluding the cost of cement, the required cement will be supplied by BHEL at free of cost.	cum	7.17		
5	Providing and constructing granite size stone masonry in superstructure and substructure with cement mortar 1:6, edges of stones chistle dressed in course not less than 15cms high, bond stones at every 2m apart in each course including cost of materials, labour, scaffolding, curing etc complete. Excluding the cost of cement, the required cement will be supplied by BHEL at free of cost.	cum	33.95		
6	Providing and laying in position plain cement concrete of mix M20 (1:1.5:3) using 20mm and downsize graded granite metal, machine mixed, concrete laid in layers not exceeding 15cms. thick, well compacted, in foundation, plinth and cills, including the cost of all materials, labour, HOM of machiery, curing etc complete. Excluding the cost of cement, the required cement will be supplied by BHEL at free of cost.	cum	6.84		
7	Providing and constructing burnt brick masonry with approved quality class designated 50 with cement mortar 1:4 for basement and superstrucure including cost of materials, labour charges, scaffolding, curing etc complete. The sample of brick should be certified by Engineer-in-charge before construction work. Excluding the cost of cement, the required cement will be supplied by BHEL at free of cost.	cum	26.16		
8	Providing and laying in position reinforced cement concrete (RCC) of design mix M20 (1:1.5:3) using 20mm and downsize graded granite metal, machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation, plinth and ground floor level for slabs, staircases, lintels, retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing etc complete. Excluding the cost of cement, the required cement will be supplied by BHEL at free of cost.	cum	11.45		

9	Labour charges for providing TMT steel reinforcement for RCC work including straightening, cutting, bending, hooking, placing in position, lapping and/ or welding wherever required, tying with binding wire and anchoring to the adjoining members, wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery etc complete. The design of reinforcement should be certified by Engineer-in-charge before commencement of bar binding work. The required steel reinforcement will be supplied by BHEL at free of cost.	MT	1.75		
10	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness above 200mm including cost of all materials, labour etc complete.	sqm	96.24		
11	Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry and concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding including cost of all materials, labour, curing etc complete. Excluding the cost of cement, the required cement will be supplied by BHEL at free of cost.	sqm	500.88		
12	Labour charges for providing ceramic tiles of approved make, shade and size of flooring, treads of steps and landings laid on a bed of 12mm thick, using Roak cement or cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labours, curing etc complete. The required tiles and cement will be supplied by BHEL at free of cost. The supply of Roak Cement will be under the scope of the contractor.	sqm	181.02		
13	Filling earthwork (excluding rock) in sides of foundation upto plinth in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour etc complete.	cum	25.47		
14	Providing and applying two coats of paint (distemper/ enamel paint/ exterior wall paints/ emulsion/ all types of primers) of ASIAN make and approved shade including priming coats with approved quality suitable primer after thoroughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of all materials, our etc complete. Original Invoice of purchase of paint should be submitted to BHEL as a proof of Authenticacy.	sqm	178.80		
15	Providing and fixing white vitreous china clay (Make: Parryware, Hindustan, CERA, ROCA, Hindware) Indian water closet (Orrisa pan) S or P trap including fixing flushing cistern with all fittings, CI/ MS brackets, flush pipe, fittings and clamps, stop cock, angle cock, overflow arrangements, couplings, nahni trap, painting of fittings and brackets, cutting and making grooves on the wall/ floor/ ceiling wherever required, etc complete. Original Invoice of purchase of IWC should be submitted to BHEL as a proof of Authenticacy.	each	10.00		
16	Providing and fixing white vitreous china clay, flat back (Make: Parryware, Hindustan, CERA, ROCA, Hindware) wash basin size 630 X 450mm with a pair of 15mm CP brass pillar taps with CI/ MS brackets, waste coupling, waste pipe, connecting pipe, cutting and making grooves in the wall and floor wherever required, including cost of materials, labour etc complete. Original Invoice of purchase of Wash Basin should be submitted to BHEL as a proof of Authenticacy.	each	4.00		

17	Providing and fixing to wall ceiling and floor 20mm diameter GI pipe of B class and of make TATA, Suryaprakash, Appolo or Jindal including cutting, threading and also making grooves in the wall, including providing necessary fittings. Fixing to wall, ceiling, floor, trenches etc complete.	M	50.00		
18	Providing and fixing in position CP brass bib cock of (Neta, Leader, Laquar, Kohinoor, Viking make) and quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads etc complete.	each	15.00		
19	Providing and fixing in position brass stop cock of (Neta, Leader, Laquar, Kohinoor, Viking make) and quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads etc complete.	each	10.00		
20	Providing and fixing to wall, ceiling and floor (including trenches), low density polyethylene pipes 6.00kgf/ sqcm of dia 75mm to 110mm, make Oriplast, Aashirwaad or Prince, fixing with special flange, compression type fittings, joint sealants, wall clips, making grooves in the wall, ceiling and floor, including cost of all material, labour charges etc complete.	M	50.00		
21	Providing and fixing white vitreous china clay flat back urinal basin of size 580X380X350 (big size) with 5 litres of pvc sutomatic flushing cistern. CI/ MS bracket, standar dflush pipe and CP brass spreaders with brass unions and GI clamps d trap with outlet grating and other couplings in CP brass, painting of fittings and brackets, cutting and making grooves in the wall and floor wherever required including the cost of all materials and labour etc complete. Makes: Parryware, Hindustan, CERA, ROCA, Hindware only.	Unit	8.00		
22	Providing and fixing in position 20mm thick jet black granite slab as urinal partition, polished on both sides upto a height of 1.5m top edge rounded up, edges chamfered, fixed between two adjacent urinals by making proper grooves in wall and floor tiles fixed using CM 1:4 including the cost of all materials and labour etc complete. The required cement only will be supplied by BHEL for free of cost.	sqm	8.10		
23	Providing and laying in position 40mm thick jet black granite for platform for wash basin one side polished laid over using CM 1:4 cutting to required shape and size and making provisions and openings for sink fixing and making hole for gas pipes including the cost of making nosing including the cost of all materials and labour etc complete. The required cement only will be supplied by BHEL for free of cost.	sqm	1.50		
24	Providing and placing on terrace. Polythylene water storage tanks of 1000 litres capacity, Syntex or equivalent make (with approval of Engineer-incharge) with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes including the cost of all materials, labour, transport charges, HOM of equipments and testing etc complete.	Nos.	1.00		
25	Providing and fixing in position aluminium ventilators with 5mm thick glass louvers as per sample ventilator shown with approved quality of fixtures. Louvers frames revitted in the assembled frame stiffened with end clips at corners angles etc. and fixed to wall, lintels floors, beam/ cills, as the case may be necessary with necessary steel screws, raul plugs, or wooden gutties including cutting masonry or concrete and making grooves in the original surface using cement mortar 1:4 etc complete.	sqm	3.24		

26	Labour charges for fixing in position available doors, windows and ventilators including frames and including the cost of all welding works, carpentary works, masonry and concrete breaking and fixing work. The required doors and windows will be supplied by BHEL at free of cost.	each	2.00		
27	Providing and fixing Syntax make PVC doors including frames of required shade, shape and size, corners properly jointed and including the cost of all fitting and fixtures etc complete.	sqm	15.75		
				SUB TOTAL	
Taxes, if any (i)					
(ii)					
(iii)					
				GRAND TOTAL	

(Rupees _____)

Note:

- 1 **Taxes and/or duties, if any may be quoted saperately, otherwise the rates quoted will be considered as inclusive of all the taxes and duties and no additional claims in this regard will be considered later.**
- 2 Before quoting, the contractors are advised to meet the engineer-in-charge, inspect the work spot and understand the scope of work clearly.
- 4 Supply of materials coming under BHEL scope will be issued at BHEL. Vehicle will be provided by BHEL. Contractor has to arrange for loading, unloading and safe upkeep of materials issued by BHEL.
- 5 Contractors should arrange safe and secure place for storing the materials issued by BHEL. For any theft/ loss of materials, contractor will be responsible and cost of the same will be recovered from the contractor's bills.
- 6 Contractor should return back unused/ scrap generated (only for materials supplied by BHEL).
- 7 All safety precautions to be taken in view of close proximity of school by providing sheet barricade around the construction area.

Signature of the contractor

Name: _____

Address: _____

Contact No.: _____

E-mail: _____

PART B (PRICE BID FORMAT)
SCHEDULE - C (Cumulative calculation)

Name of the work: Construction of anqanwadi at Muthur village in Doddabalapura Taluk and construction of boys and girls toilet at Government Middle School, Jalahalli, Banqalore under CSR project 2015 - 16.

SL.NO.	Description	Amount. (Rs.)
1.	Construction of Anganwadi at Muthur village, Doddabalapura Taluk under CSR project 2015-16. (Grand Total value as mentioend in Schedule A including all taxes)	
2	Construction of boys and girls toilet in Government Middle School in Jalahalli, Bangalore urban district under CSR project 2015-16. (Grand Total value as mentioned in Schedule B including all taxes)	
	GRAND TOTAL	

(Rupees _____)

Note:

- 1 Before quoting, the contractors are advised to meet the engineer-in-charge, inspect the work spot and understand the scope of work clearly.
- 2 Supply of materials coming under BHEL scope will be issued at BHEL. Vehicle will be provided by BHEL. Contractor has to arrange for loading, unloading and safe upkeep of materials issued by BHEL.
- 3 Contractors should arrange safe and secure place for storing the materials issued by BHEL. For any theft/ loss of materials, contractor will be responsible and cost of the same will be recovered from the contractor's bills.
- 4 Contractor should return back unused/ scrap generated (only for materials supplied by BHEL).
- 5 All safety precautions to be taken in view of close proximity of school by providing sheet barricade around the construction area.

Signature of the contractor

Name of Contractor: _____

Address: _____

Mobile No. _____

E-mail: _____