



BHARAT HEAVY ELECTRICALS LIMITED
RAMACHANDRAPURAM::HYDERABAD::32
FACTORY CIVIL ENGINEERING DEPARTMENT

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-34/15-16, Dt: 14.12.2015

PRICE BID

Item no.: 7

Name of work:- Extension of shed for intermediate stores at oil rigs.

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
1	Felling trees of the girth (measured at a height of 1m above ground level) including cutting of trunks and branches removing the roots and stacking of serviceable materials and disposal of unserviceable materials - Beyond 120 cm girth upto and including 2.40 M girth.	2.00	Each	3,026.30	6,052.60
2	Earth work in excavation in all soils by mechanical means (Hydraulic Excavators) / manual means in foundations trenches or drains (not exceeding 1.5m in width or 10 Sq.m on plan) including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50M.	40.00	Cu.m	130.80	5,232.00
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering including consolidation by vibrations for all works up to plinth level with 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate of 20 mm nominal size) - The cement will be issued free of cost by BHEL at BHEL stores.	12.00	Cu.M	2,606.60	31,279.20
4	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement, including consolidation by vibrations for all works up to plinth level with 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size) - The cement and steel will be issued free of cost by BHEL at BHEL stores.	7.00	Cu.M	2,772.00	19,404.00
5	Reinforcement for R.C.C. work including straightening , cutting , bending , placing in position and binding grills with binding wire all complete by cold twisted bars. - The steel will be issued free of cost by BHEL at BHEL Stores.	0.56	M.T	7,369.00	4,126.64

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
6	Centering and shuttering including strutting, propping etc.; and removal of form work, for walls (any thickness) including attached pilasters, butresses, plinth and string courses etc. upto plinth level.	40.00	Sq.M	285.15	11,406.00
7	Coursed rubble masonry in second sort with hard stone in foundation & plinth with cement mortar 1:6 (1 cement :6 coarse sand). The cement will be issued free of cost by BHEL at BHEL stores.	10.00	Cu.M	2,819.70	28,197.00
8	Brick work with Ground moulded clay FPS brick in super structure above plinth level upto floor five level in cement mortar 1:6 (1 cement : 6 Coarse sand). - The cement will be issued free of cost by BHEL at BHEL Stores.	21.00	Cu.M	3,513.00	73,773.00
9	Plastering in CM 1:6 , 20 mm thick to internal and external surfaces of walls including the cost of all materials , labour , curing etc., complete -Upto 10.00 M level. - The cement will be issued free of cost by BHEL at BHEL Stores.	210.00	Sq.m	124.00	26,040.00
10	Applying exterior emulsion paint 2 coats over one coat of primer to external new plastered surfaces including cost of all labour and other incidentals. (only exterior paint will be issued by BHEL on free of cost).	210.00	Sq.m	37.10	7,791.00
11	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering including consolidation by vibrations for all works up to plinth level with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) - The cement will be issued free of cost by BHEL at BHEL stores.	18.00	Cu.M	2,845.50	51,219.00
12	Conveyance of excavated spoil up to a lead of 2 Kms, including loading, unloading and spreading etc. complete as directed by Engineer- in- charge.	277.00	Cu.M	93.94	26,021.38
13	Flooring in 25mm thick using 1 cement and 3 parts of granite stone chips of 3 to 10mm gauge (no sand) ellis pattern first sort including neat finishing , curing, cost of materials etc.; complete.	85.00	Sq.m	130.40	11,084.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
14a	Fixing of steel windows in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts embedding hold fasts in cement concrete blocks with cement concrete 1:3:6 (1 cement:3coarse sand:6 graded stone aggregate 20 mm nominal size) painting two coats of approved paint and making good the damages to walls and floors as required complete including disposal of rubbish to the dumping ground within 50 meters lead as directed by engineer-in-charge. The steel windows will be supplied by BHEL.	4.00	Each	367.05	1,468.20
b	Supplying and fixing of weldmesh of size 75x25mm, 10x8 guage with 75 x 25 mm seasoned medium Indian teakwood reapers to the existing windows including 2 coats of painting with synthetic enamel paint of approved shade and brand over a coat of primer, making holes wherever necessary for operating the fixtures, furniture, cost of all materials etc., complete.	8.00	Sq.m	1,033.85	8,270.80
c	Supply & fixing of 4 mm thick glass of plain / opaque / pin headed etc., with MS glazing clips and putty at all floors of buildings. The rate quoted shall include removal of broken glasses, cleaning old putty etc., complete from the old windows / partitions at all heights of the buildings, as directed by Engineer-in-charge.	8.00	sq.m	427.60	3,420.80
15	Erection of steel doors for M.S. steel partition for cabins (weldmesh, glazed or panelled) with required M.S. posts and all accessories such as hinges, aldrops etc., including gas cutting, welding etc., complete as directed by Engineer-in-charge. (The rate shall include for fixing glass panes after erection of door in case of glazed doors). (Size approximately 1.20Mx2.40M)	2.00	Each	376.80	753.60
16	Applying two coat of synthetic enamel paint of given shade over a coat of primer to new wood work including scraping the surfacess, cost of all labour, tools and other incidentals etc. Complete. (Only synthetic enamel paint will be supplied by BHEL at BHEL stores).	30.00	One Sq.m	36.30	1,089.00
17	Supply & fixing in position PVC Pipes of 110 mm dia of 6 Kg/Sq. cm of approved quality and conforming to IS:4985/2000 with specials, accessories and approved sealing / jointing compound on the exterior of the inserted portion and jointing to MS gutters, including cost of all materials, sealing compound, labour etc., for all heights complete.	129.00	R M	211.00	27,219.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
18	Providing Aluminium zinc alloy coated metallic sheet ridges of same colour of roof sheet Fixing to steel members with self drilling fastners at Max. 500 mm C/C along length of Caping etc.; Complete.	13.00	RM	900.00	11,700.00
19a	Fabrication of structural steel work including all materials going into the process of fabrication and forming an integral part of steel work together with all shop and site rivets and electrodes for site welding as necessary and all site connections comprising sag rods, floor beams, girders, bracings, trusses and frame work for fixed false ceiling and for movable false ceiling, purlins with channel / angles, MS flat supports including all connections as per detailed drawings connected steel works etc., cleats, gusset plates, all bolts, nuts, washers, base plates, anchor bolts as per detailed drawings, cutting, welding and painting 2 coats of red-oxide primer before erection etc., complete. The rate shall include painting 2 coat of Red-oxide as per IS specifications and all charges for handling, leading and loading at the fabrication yard. The raw structural steel sections, electrodes, gasses will be issued by BHEL on FREE of cost at BHEL stores.	6.00	MT	8,871.00	53,226.00
b	Erection of Steel work out lined in item No.19a above including the charges for handling, leading and stacking at site at approved locations prior to erection including all site rivetting, bolting, jointing and site welding where ever required.	6.00	MT	3,802.00	22,812.00
c	Painting at site of all structural steel work with 2 coats of aluminium paint / synthetic enamel paint of approved shade to trusses, columns, girders, bracings etc., with aluminium paint or synthetic enamel paint as required etc., complete. The required paint only will be issued free of cost by B.H.E.L at BHEL stores.	6.00	MT	696.00	4,176.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
20	Supply and Fixing of colour coated aluminium zinc alloy coated metallic hirib profile sheet of nominal 1015-1020mm effective cover width and 28-30 mm deep ribs with subtle square fluting in the five pan at nominal 202-205mm centre-to-Centre. The plain sheet width without profile shall be 1220 mm.The end rib shall be designed for anti-capillary action, to avoid any seepage of water through the lateral overlap. The feen material is manufactured out of nominal 0.45mm base metal thickness (BMT) or 0.5 mm TCT, Hi-Strength steel with minimum 550 MPa yield strength metallic hot dip coated with aluminium -Zinc alloy (55 % Aluminium ,45 % Zinc)as per AS 1397-Zincalume AZ150 (Min 150 Grams / Sq.Mt) Total on both sides) with colour bond steel quality paint coat as per AS/NZS 2728 type 3-4.The paint shall have a total coating thickness of nominal 35 µm, Comprising of nominal 20µm exterior coat on top surface and nominal 5 µm reverse coat on back surface over nominal 5µm primer coat on both surfaces of approved colour shade by concern authority. The steel manufactures test certificate for the certificate for the chemical and mechanical properties of steel must be submitted for approval by the BHEL engineer-in-charge. Including cost of transportation, storing, erection , fixing charges, cost of all materials like Galvanised hex head self drilling suitable screws of size 12-14 x 55 scaffolding , erection equipment's, safety belts etc.; complete as directed by Engineer-in-charge.	120.00	Sq.m	672.40	80,688.00
Total Value of work				₹	5,16,449.22

Note:

1	A penalty of 0.5% of the gross value of work shall be levied for every weeks or part there of non-execution/delay in the execution of work subjected to maximum penalty of 10% of the gross value of total part executed.
2	The rates are inclusive of all taxes and duties except Service tax, which is extra as per service tax norms will be paid by BHEL to the agency after submission of necessary documents.

Note : The bidders are required to quote the tender value on percentage (%) basis at excess or less or on par with estimate value in figures and words.

Tender %	In figure	In words
Excess		
Less		
Estimated value		