



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

SCHEDULE- A

Tender Notice No:

HY/FCD/OT- 11 /2010-11 , Dt: - 05.08.2010

PRICE BID

Item no : 02

Name of work : Construction of ground level reservoir 120 KL capacity and pump house at New Blade Shop.

| S No | Description of the item | Qty | Unit | Rate (Rs) | Amount (Rs) |
|------|--|-------|------|-----------|-------------|
| | PART- I : Ground Level reservoir 120KL capacity | | | | |
| 1a | Earth work in excavation in all soils by mechanical means (Hydraulic Excavtors) / 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. | 70.00 | Cu.m | 103.40 | 7238.00 |
| b | ----do---- up to First additional depth of 1.50 M to 3.00 M. | 70.00 | Cu.m | 122.30 | 8561.00 |
| 2 | Earth work in excavation by mechanical means (Hydraulic Excavators) / manual measn over areas (exceeding 30 cm in depth , 1.5 m in width as well as 10 Sq.m on plan) including disposal of excavated earth , lead upto 50 m and lift upto 1.5 m, disposing earth to be levelled and neatly dressed for Hard Rock (Blasting prohibited). | 25.00 | Cu.M | 325.25 | 8131.25 |
| 3 | Providing and laying in position cement concrete of specified garde 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). | 7.00 | Cu.M | 2449.00 | 17143.00 |
| 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). | 60.00 | Cu.M | 3732.00 | 223920.00 |

| S No | Description of the item | Qty | Unit | Rate (Rs) | Amount (Rs) |
|------|---|--------|------|-----------|-------------|
| 5 | Centering and shuttering including strutting, propping etc; and removal of form work, for columns, pillars, peirs, abutments, machine foundations, posts and struts. | 320.00 | Sq.M | 180.40 | 57728.00 |
| 6 | 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. | 6.00 | M.T | 42700.00 | 256200.00 |
| 7 | Conveyance of excavated spoil up to a lead of 2 Kms, including loading , unloading and spreading etc. complete as directed by Engineer- in- charge. | 107.00 | Cu.M | 56.41 | 6035.87 |
| 8 | Filling with available excavated earth (excluding rock) in trenches , plinth , sides of foundations etc. in layers not exceeding 20 cm in depth , consolidation each deposited layer by ramming and watering , lead upto 50.00 m and lift upto 1.50 m. | 33.00 | Cu.M | 45.70 | 1508.10 |
| 9(a) | Fixing MS Ladder of 3.00M Long Inside tank 30 Kg wt | 1.00 | No. | 1500 | 1500.00 |
| (b) | ----- Do ----- with 2.00 M Long 20 kg wt | 1.00 | No. | 1000 | 1000.00 |
| 10 | Fixing of MS Frame and Cover to man hole of size 0.60 X 0.60 with Locking . 50kg wt | 1.00 | No. | 2500 | 2500.00 |
| 11 | Providing Inlet , Outlet Overflow and Scour Pipes in concrete of 150 mm Ø . | 4.00 | No. | 2613 | 10452.00 |
| 12a | Providing and laying non-pressure NP2 class (light duty) RCC pipes with collars jointed with stiff mixture of cement motor in propotion of 1:2 (1 cement : 2 fine sand) including testing of joint etc., complete - for dia 150mm (RCC pipe). | 47.00 | RM | 202.85 | 9533.95 |

| S No | Description of the item | Qty | Unit | Rate (Rs) | Amount (Rs) |
|------|---|--------|-------------------------|-----------|--------------------|
| 13 | Construction of brick masonry chamber for underground CI inspection chamber and bends with 75 class designated bricks in cement mortar 1:4 (1 cement : 4 coats sand) CI cover with frame (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38kgs (weight of cover 23 kg and weight of frame 15 kg) RCC top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement motor 1:3 (1 cement : 3 coarse sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc., complete as per standard design-inside dimensions 600x850mm and 450mm deep for pipe line with 3 or more inlets. | 2.00 | Each | 4068.50 | 8137.00 |
| 14 | Plastering over roof slab in CM 1:4, 20mm thick mixed with water proofing compound, Make: "Sika" @ 3% by weight of cement as per manufacturer's specification, curing as directed. Rate quoted shall include finishing, cost of all materials and labour etc., complete. (Cement =7.69 kgs/sq.m x3% WP@ Rs 20.00 per kg=Rs 4.61) upto 10 m height. | 150.00 | Sq.m | 115.06 | 17259.00 |
| 15 | Providing and laying Double Flanged (screwed / welded) centrifugal (spun) cast iron , class B (IS : 1536) --- for ---- 100 mm dia pipe. | 30.00 | Rm | 1151.15 | 34534.50 |
| 16 | Supply and Fixing C.I. sluice valves with operating wheel as per IS with flanged joints rubber insertion with bolts , nuts and washers. --for ---dia 150 mm dia pipe.(as per IS 14846 / 2000) PN: 1.60. | 2.00 | Each | 10264.50 | 20529.00 |
| 17 | -----do----for inlet connection of 80 mm dia pipe PN: 1.60. | 1.00 | Each | 5131.70 | 5131.70 |
| | | | Total of Part -I | | 6,97,042.37 |

| S No | Description of the item | Qty | Unit | Rate (Rs) | Amount (Rs) |
|------|--|-------|------|-----------|-------------|
| | PART-II: Pump House | | | | |
| 1 | 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. | 60.00 | Cu.m | 103.40 | 6204.00 |
| 2 | 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). | 5.00 | Cu.M | 2449.00 | 12245.00 |
| 3 | 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). | 14.00 | Cu.M | 3732.00 | 52248.00 |
| 4 | Centering and shuttering including strutting, propping etc; and removal of form work, for columns, pillars, piers, abutments, machine foundations, posts and struts. | 60.00 | Sq.M | 180.40 | 10824.00 |
| 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. | 1.40 | M.T | 42700.00 | 59780.00 |
| 6 | Filling with available excavated earth (excluding rock) in trenches , plinth , sides of foundations etc. in layers not exceeding 20 cm in depth , consolidation each deposited layer by ramming and watering , lead upto 50.00 m and lift upto 1.50 m. | 10.00 | Cu.M | 45.70 | 457.00 |
| 7 | Coursed rubble masonry in second sort with hard stone in foundation & plinth with cement mortar 1:6 (1 cement :6 coarse sand) | 14.18 | Cu.M | 1913.10 | 27127.76 |
| 8 | Brick work with FPS bricks of class designation 75 in superstructure above plinth level up to ground floor in all shapes and sizes in cement mortar 1:6. | 15.00 | Cu.M | 2463.60 | 36954.00 |

| S No | Description of the item | Qty | Unit | Rate (Rs) | Amount (Rs) |
|------|--|--------|------|-----------|-------------|
| 9a | 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. | 182.00 | Sq.m | 95.10 | 17308.20 |
| b | Cement Plaster to ceiling /walls with 12mm thick cement plaster finished with a floating coat of neat cement of mix 1:3 (1 cement : 3 fine sand) . | 40.00 | Sq.m | 107.80 | 4312.00 |
| 10a | Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tall pieces if required will be paid separately): Class - II type of 150 mm dia with DF. | 4.00 | Each | 3889.75 | 15559.00 |
| b | -----do-----for non return valves 150 mm dia with DF. | 2.00 | Each | 3889.75 | 7779.50 |
| 11 | Supply & Fixing 150 mm dia C.I. D.F pipes from sump to pumps and from pump delivering to over head water tank including specials & testing. | 40.00 | RM | 1781.85 | 71274.00 |
| 12 | Plastering over roof slab in CM 1:4, 20mm thick mixed with water proofing compound, Make: "Sika" @ 3% by weight of cement as per manufacturer's specification, curing as directed. Rate quoted shall include finishing, cost of all materials and labour etc., complete. (Cement =7.69 kgs/sq.m x3% WP@ Rs 20.00 per kg=Rs 4.61) upto 10 m height. | 30.00 | Sq.m | 115.06 | 3451.80 |
| 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. | 24.00 | Sq.m | 196.00 | 4704.00 |
| 14 | Applying exterior emulsion paint 2 coats to external new plastered surfaces including curing etc., over a coat of primer (paint will be issued free of cost by BHEL at their stores). | 222.00 | Sq m | 28.20 | 6260.40 |
| 15 | Supply and fixing steel windows of approved make including supply and fixing 4 mm thick plain glass with best quality putty, MS handles and peg stays including painting with two coats of synthetic enamel paint over one coat of red oxide paint including supplying and fixing weld mesh 50 x 50 mm (8G x 8 G).The window section and fabrication shall confirm to I.S. 1038. | 6.00 | Sq.m | 1900.00 | 11400.00 |

| S No | Description of the item | Qty | Unit | Rate (Rs) | Amount (Rs) |
|---|---|------|--------------------------|-----------|---------------------|
| 16 | Supply and erection of 20 HP 3phase 415 V AC High speed Centrifugal monoblock pump of Kirloskar(model: KDs 2050+ci gp(100X80MM)/Crompton make with total discharge height of 48 mts ,at 30 m the discharge 29.7 Ltrs per second. with motor stater , foot valve etc; | 2.00 | Each | 44901.40 | 89802.80 |
| 17 | Fabrication , supply and erection of fully Panelled steel partition panels of size 1.20 X 2.40 M all as per drawing using 18 guage M.S. black plain sheet for panels including the cost of supply and fixing of all constituents materials and handing charges etc; complete . The rate shall include two coats of synthetic enamel paint of approved colour and brand after erection. Cost of all materials etc. complete. | 2.40 | Sq.m | 1695.40 | 4068.96 |
| | | | Total of Part -II | | 4,41,760.42 |
| | Total (Part - I & Part- II) | | | | 11,38,802.79 |
| Total : Rs. Eleven lakhs thirty eight thousand eight hundred three only. | | | | | |

Service Tax:- The Service tax as applicable is extra which will be paid by BHEL to the agency after submission of necessary valid documents by the agency.

Note : The Tenders are required to quote the tender value on percentage (%) basis at excess or less or on as per estimate value

| Tender % | In figure | In words |
|-----------------|-----------|----------|
| Excess | | |
| Less | | |
| Estimated value | | |

Name of the Contractor :

Signature of the Contractor

Accounts Representative

Opening officer