

### Schedule - "B"

**Name of work : Special Repair of Over Head Tank No. 2 in Gopalpuri Colony.**

| Sr. No. | Description of Item  | Total Qty. | Unit    |         | Rate    |         | Amount |
|---------|--|------------|---------|---------|---------|---------|--------|
|         |  |            | In Fig. | In Word | In Fig. | In Word |        |
| 1       | 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 getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.   | 52.20      | m3      | Cum.    |         |         |        |
| 2       | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.  | 52.20      | m3      | Cum.    |         |         |        |
| 3       | Removal of damaged concrete/plaster: Removing & Cleaning of existing concrete/plaster carefully by low impact high frequency hammer/or by manual chipping without damaging the existing concrete.(Mode of measurement-per Sqmt of breaking area of concrete.)  | 823.64     | m2      | SQM.    |         |         |        |
| 4       | Rust convertor: Clean existing reinforcement with wire/rotary wire brush making the surface free from loose material, dirt, etc. complete, Apply alkaline rust converting primer-Eget ARUP/ Impermo 1002/ Optychem PAR on the rebars, including cleaning the reinforcement wire brushing to remove loose rust spalls. (Mode of measurement: per sqm of breaking area of concrete.) | 823.64     | m2      | SQM.    |         |         |        |

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|---|---|-----------|-----|----------|--|--|--|
| 5 | Anticorrosive treatment to reinforcement: Application of anticorrosive chemical Eget ACORB / Impermo 1003/ tychem BOR on exposed reinforcement in two coats with time interval of minimum 4 hours between each coat. The application shall be done by brush. (Mode of measurement: per sqm of application area of concrete.)    | 823.64    | m2  | SQM.     |  |  |  |
| 6 | Additional steel: Providing and fixing in position high yield steel deformed bar reinforcement to replace corroded bars of the existing RCC member or new bars within Microconcrete jacket portion, including cutting, bending, hooking, anchoring links and tying the bars with 10 SWG GI binding wire or welding if required. | 16804.47  | kg  | Kilogram |  |  |  |
| 7 | Jacketing by micro concrete: Providing, pouring, compacting, levelling precisely micro concrete ShaliFix MC/ Verdhaio MC/Impermo 4003/OptyRE M40 or equivalent of suitable grade upto required thickness, maintaining a minimum clear cover of 30 mm to the outermost reinforcement; including necessary shuttering work.       | 233255.70 | kg  | Kilogram |  |  |  |
| 8 | Guniting is applied to the Concrete surface by high Velocity Nozzle pump with the help of polymer modified mortar upto the 20mm avg thickness including apply bond coat & clear the surface before guniting as directed by engineering incharge.  | 517.04    | m2  | SQM.     |  |  |  |
| 9 | Shear key connectors: Drilling holes in concrete of suitable diameter, providing and fixing 8 mm diameter High Yield Steel reinforcing bars at 300 mm c/c on the RCC surface projecting out of the concrete surface within the jacket portion.  | 13800.00  | no. | No.      |  |  |  |

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|----|--|---------|-------|----------|--|--|--|
| 10 | Bond coat: Providing and applying structural grade epoxy resin bond coat with ShaliBond Concrete/ Catena EB/ Impermo 2004/ Optybond EOB or equivalent prior to building up of section with any type of mortar/concrete to ensure bond between old and new concrete. Application shall be done by brush etc. complete as directed by E.I.C. | 823.64  | m2    | SQM.     |  |  |  |
| 11 | Providing and laying S&S centrifugally cast (spun) iron pipes (Class LA) conforming to IS-1536 : 150 mm dia pipe.  | 43.00   | metre | Rmt.     |  |  |  |
| 12 | Providing and laying S&S centrifugally cast (spun) iron pipes (Class LA) conforming to IS - 1536 : 200mm dia pipe.   | 32.00   | metre | Rmt.     |  |  |  |
| 13 | Finishing walls with textured exterior paint of required shade :<br>"New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm.  | 994.33  | m2    | SQM.     |  |  |  |
| 14 | Structural steel work riveted, bolted or welded 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.  | 1850.00 | kg    | Kilogram |  |  |  |
| 15 | Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.   | 900.00  | m2    | SQM.     |  |  |  |
| 16 | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level 1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)  | 90.00   | m3    | Cum.     |  |  |  |

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|----|---|--------|------|------|--|--|--|
| 17 | Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately) Class-II (200mm diameter)  | 3.00   | Each | Each |  |  |  |
| 18 | Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately) : Class II, 150 mm diameter.   | 4.00   | Each | Each |  |  |  |
| 19 | 12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)   | 288.00 | m2   | SQM. |  |  |  |
| 20 | Providing and fixing factory made Fiberglass Reinforced plastics (F.R.P.) chajja 4 mm thick of required colour, size and design made by Resin Transfer Moulding (RTM) Machine Technology, resulting in void free compact laminate in single piece, having smooth gradual slope curvature for easy drainage of water and duly reinforced by 2 nos vertically and 1 nos horizontally 50x2 mm thick M.S. flat with 12 mm in built hole for grouting on the existing wall along with the 50 mm flanges duly inserted and sealed in the wall complete in one single piece casted monolithically,including all necessary fittings .The FRP Chajja should be manufactured using unsaturated Polyester resin as per IS: 6746, dulyreinforced with fibre glass chopped strand mat (CSM) as per IS: 11551 complete with protective Gel coat U/V coating on Top for complete resistance from the extreme of temperature, weather & sunlight. | 14.08  | m2   | SQM. |  |  |  |
| 21 | Supplying & fixing foot valve for existing Cast iron pipe of 200mm dia as directed by engineering incharge .  | 2.00   | Each | Each |  |  |  |

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|----|--|--------|----|------|--|--|--|
| 22 | <p>Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot &amp; cold water supply including all CPVC plain &amp; brass threaded fittings This includes jointing of pipes &amp; fittings with one step CPVC solvent cement, trenching, refilling &amp; testing of joints complete as per direction of Engineer in Charge. External work :150 mm nominal inner dia Pipes</p>   | 140.50 | RM | Rmt. |  |  |  |
| 23 | <p>Cleaning of under ground sump, Over Head R.C.C. Tank (independent staging) including disposal of slit and rubbish, all as per direction of Engineer-in-Charge. The cleaning shall consist following operations:-<br/> (I) Tank shall be emptied of water by pumping &amp; bottom shall be cleaned of slit and other deposits.<br/> (II) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water.<br/> (III) Chlorination of RCC internal surface by liquid chlorine.<br/> (IV) The treated surface shall be dried using air jetting and all loose particles shall be removal from the surface.<br/> (V) Finally the surface shall be treated with ultraviolet radiation etc. as per direction of Engineer-in-Charge.</p> | 344.68 | m2 | SQM. |  |  |  |

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|----|--|---------|--------------------------------|--------------------------------|--|--|-------|--|
| 24 | Providing and laying factory made chamfered edge Cement Concrete paver blocks In foot path, park & lawns driveway or light & traffic parking etc. of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of course sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand, all complete as per manufacturer's specifications & 80 mm thick Cement concrete paver block of M-30 grade with approved colour, design & pattern. | 828.00  | Sqm.                           | SQM.                           |  |  |       |  |
| 25 | Lettering with black Japan/ Synthetic enamel/ floor enamel/ enamel paint of approved brand and manufacture as directed by engineering incharge.  | 2000.00 | per letter<br>per cm<br>height | per letter<br>per cm<br>height |  |  |       |  |
|    |  |         |                                |                                |  |  | Total |  |

Contractor

Executive Engineer (TD)  
Deendayal port Authority