

Government of Jammu and Kashmir
Office of the Executive Engineer, Water Supply Master Plan Division, Srinagar.

M/s Kaiser Impex
Address: 2nd Floor Khidmat Complex
The Bund Residency Road Srinagar.
PAN No.: AABPQ6566C
GST No.: 01AABPQ6566C1Z1
Regd.: AAY Class Civil and Sanitary

Allotment Order No.: 29 of 2025
Dated: 22-11-25

Subject:- Allotment for CONSTRUCTION OF 50000 GALLON CAPACITY OVER HEAD TANKS /JACKETTING OF RECTANGULAR COLLECTION SUMP /CONSTRUCTION OF WASHROOM INCLUDING ITS ELECTRIC WORKS, PROVIDING, LAYING FITTING OF GI / DI PIPES AND PIPE SPECIALS / CONSTRUCTION OF PUMP HOUSE ABOVE COLLECTION CHAMBER INCLUDING ELECTRO MECHANICAL WORKS AND DISMANTLING OF EXISTING STRUCTURES AT NUNDRESHI COLONY BEMINA (UNDER AMRUT 2.0)

Reference :- Your tender in response to this office e-NIT No.14/WSMP of 11/2024 dated: 08-11-2024 issued under endorsement No.5426-46 dated: 08-11-2024 and this office minutes for technical evaluation No. 6532-35 dated: 27-12-2024 and This office LOI No. WSMP/CC/6554-59 Dated: 28-12-2024 (S. No.03).

Tender Id:- 2024_PHE_263887_3

Adv. Cost: Rs.124.00Lacs

Allotment /Contract Value:- Rs.109.49 Lacs (Quoted percentage rate = -11.70%)

Time of Completion:-180 Days

Head of Accounts:- AMRUT 2.0

For and on behalf of the Lt. Governor, UT of Jammu and Kashmir, the above noted work is hereby allotted to you on the following unit based quoted rates, terms and conditions:-

| S.No | Item of Work | Unit | Quantity | Rate |
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| A. | Civil Part | | | |
| 01. | Earth work in bulk excavation by mechanical means (hydraulic excavator) over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 m ² on plan) including disposal of excavated earth lead upto 50 meters and lift upto 1.5 m, as directed by Engineer-in-Charge. All kinds of soil : | Cum | 01 | 165.38 |
| 02. | Extra for every additional lift of 1.5 m or part thereof in excavation/banking excavated or stacked material : All kinds of soil : | Cum | 01 | 79.25 |
| 03. | Earth work in excavation by manual means in trenches for foundations, drains, pipes, cables etc. (not exceeding 1.5 m in width) and for shafts, wells, cesspits and the like not exceeding 10 sqm on plan, including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out excavated earth and disposal of surplus excavated earth as directed:1 meter from cutting edge. All kinds of soil : | Cum | 01 | 423.22 |
| 04. | Earth work in excavation by mechanical means (hydraulic excavator) in trenches for foundations, drains, pipes, cables etc. (not exceeding 1.5 m in width) and for shafts, wells, cesspits and the like not exceeding 10 sqm on plan, including dressing of sides and ramming of bottoms lift upto 1.5 m, | Cum | 01 | 226.80 |

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| | including getting out excavated earth and disposal of surplus excavated earth as directed, within a lead of 50 metres: 2.9.1 All kinds of soil : | | | |
| 05. | Providing and laying of dry stone soling in foundation/trenches hand packed and consolidated by hand ramming. (Subject to actual quantities during execution). | Cum | 01 | 1165.56 |
| 06. | Providing and laying in position cement concrete of specified grade including curing but excluding the cost of centring and shuttering. All work upto plinth level with: | | | |
| | i. 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) | Cum | 01 | 4261.80 |
| | ii. 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size) | Cum | 01 | 4594.16 |
| | iii. 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) | Cum | 01 | 5062.77 |
| | iv. 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size) | Cum | 01 | 5775.22 |
| 07. | Providing and laying in position specified grade of reinforced cement concrete including curing but excluding the cost of centering, shuttering, finishing and reinforcement. All works upto plinth level. | | | |
| | i. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size) | Cum | 01 | 6877.16 |
| 08. | Reinforced cement concrete work in walls (any thickness) including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts upto floor five level including curing but excluding cost of centering shuttering, finishing and reinforcement. | | | |
| | i. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size) | Cum | 01 | 8296.40 |
| 09. | Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15°, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto five level including curing but excluding the cost of centring, shuttering, finishing and reinforcement with | | | |
| | i. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size) | Cum | 83.97 | 8672.69 |
| 10. | Reinforced cement concrete work in arches, archribs, domes, vaults shells, folded plate and roofs having slope more than 15° upto floor five level level including curing but excluding the cost of centering, shuttering finishing and reinforcement with: | | | |
| | i. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size) | Cum | 01 | 9163.02 |
| | ii. | | | |

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| 11. | Reinforced cement concrete work in chimneys, shafts upto floor five level including curing complete but excluding the cost of centering, shuttering, finishing and reinforcement with: i. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size) | Cum | 01 | 8466.25 |
| 12. | Providing and laying upto floor v level reinforced cement concrete in kerbs, steps and the like including curing but excluding the cost of centering, shuttering, finishing and reinforcement with i. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size) | Cum | 01 | 7967.62 |
| 13. | Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including 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 Engineer-in-charge. Note: - Cement in this item is @ 330 kg/cum. Excess or less cement used as per design mix is content considered payable or recoverable separately. i. All works upto plinth level. ii. All works above plinth level upto floor V level. | Cum Cum | 01 01 | 7082.63 8310.84 |
| 14. | Extra for R.C.C./B.M.C./R.M.C. work above floor V level for each four floors or part thereof. | Cum | 01 | 248.08 |
| 15. | Add or deduct for using more or less cement in the items of design mix over and above the specified cement content therein at 5Qtl. Per Cum. | Qtl. | 01 | 830.90 |
| 16. | Extra for providing richer mixes at all floor levels. Note:- Excess/ less cement over the specified cement content used is payable/ recoverable separately. i. Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum) | Cum | 01 | 87.24 |
| 17. | Boring, providing and installing bored cast-in-situ reinforced cement concrete pile of specified grade concrete mix, diameter and length below the pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. all complete including removal of excavated earth with all lifts and leads (Length of pile for payment Shall be measured from top of shoe to the bottom of pile cap) By percussion drilling using Direct mud circulation (DMC) or Bailer and chisel technique by tripod and mechanical Winch Machine all | | | |

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| | complete, i. 450 mm dia piles a. M-25 b. M-30 c. M-35 ii. 500mm dia Piles a. M-25 b. M-30 c. M-35 iii. 600mm dia Piles a. M-25 b. M-30 c. M-35 iv. 750mm dia Piles a. M-25 b. M-30 c. M-35 | Mtr. Mtr. Mtr. Mtr. Mtr. Mtr. Mtr. Mtr. Mtr. Mtr. Mtr. Mtr. | 01 01 01 01 01 01 01 01 01 01 01 01 | 1714.69 1728.51 1742.42 2009.26 2026.31 2043.48 2733.10 2757.69 2782.42 4144.75 4183.12 4221.71 |
| 18. | Vertical load testing of piles in accordance with IS 2911 (Part IV) including installation of loading platform by Kentledge/Anchor pile method and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & the direction of Engineer-in-Charge. i. Single pile upto 50 tonne safe capacity a. Initial test (Test Load 2.5 times the safe capacity) b. Routine test (Test Load 1.5 times the safe capacity) | per test per test | 01 01 | 140867.60 154954.70 |
| 19. | Pumping out water caused by springs, tidal or river seepage, broken water mains or drains and the like. | 1Kl | 01 | 148.17 |
| 20. | Open timbering in trenches including strutting and shoring complete (measurements to be taken of the face area timbered): i. Depth not exceeding 1.5 m. ii. Depth exceeding 1.5 m but not exceeding 3 m iii. Depth exceeding 3 m but not exceeding 4.50 m | Sqm Sqm Sqm | 01 01 01 | 112.23 118.72 129.40 |
| 21. | Centering and shuttering including strutting, propping etc. and removal of form for: i. Foundations, footings, bases of columns etc. for mass concrete. ii. Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc. iii. Suspended floors, roofs, landings, balconies and access platforms. iv. Lintel, beams, plinth beams, girders, bressumers and cantilevers v. Columns, pillars, piers, abutments, posts and struts. vi. Stairs (excluding landings) except spiral staircases. vii. Spiral staircases (including landings) viii. Arches, domes, vaults upto 6 m span ix. Extra for arches, domes, vaults exceeding 6m span x. Chimney and shafts xi. Extra for shuttering in circular work (20% of respective centering and Shuttering Walls) | Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm Sqm | 01 01 01 01 01 01 01 01 01 01 | 252.85 555.36 634.17 509.97 655.67 751.56 597.13 2014.30 987.94 555.36 111.07 |

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| | xii. Small surfaces such as cantilever ends, brackets and end of steps, caps and bases to pilasters and column and the like. | Sqm | 01 | 907.19 |
| | xiii. Edges of slabs and breaks in floors and walls | | | |
| | a. Under 20 cm wide | Mtr. | 01 | 231.52 |
| | b. Above 20 cm wide | Sqm | 01 | 1011.12 |
| 22. | Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc. including cost of de-shuttering and de-centering at all levels, over a height of 3.5 m, for every additional height of 1 meter or part thereof (Plan area to be measured). | Sqm | 01 | 259.51 |
| | i. Suspended floors, roofs, landings, beams and balconies (plan area to be measured) | | | |
| 23. | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level | | | |
| | i. Thermo-Mechanically Treated bars of grade Fe-500D or more. | Kg. | 01 | 108.78 |
| 24. | 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 | Kg. | 01 | 106.66 |
| 25. | Structural steel work 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. | | | |
| | i. Welded | Kg. | 01 | 122.03 |
| 26. | Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. | | | |
| | i. Hot finished welded type tubes | Kg | 01 | 138.59 |
| | ii. Hot finished seamless type tubes | Kg | 01 | 150.99 |
| | iii. Electric resistance or induction butt welded tubes | Kg | 01 | 126.18 |
| 27. | Steel work welded in built up sections/framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. | | | |
| | i. In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete. | Kg | 01 | 124.85 |
| | ii. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works. | kg | 01 | 160.35 |
| 28. | Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. | | | |
| | i. M.S. tube | Kg | 01 | 142.21 |
| | ii. E.R.W. tubes | kg | 01 | 136.60 |
| | iii. G.I. pipes | Kg | 01 | 174.34 |
| 29. | i. Providing and fixing precoated galvanized iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, | | | |

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| | in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. ii. Ridges plain (500 - 600mm) | Sqm | 01 | 623.84 |
| | | Mtr. | 01 | 449.18 |
| 30. | Providing ridges or hips of width 60cm overall width plain G.S. sheets fixed with polymer coated J. or L hooks, bolts and nuts 8mm dia G.I. limpet and bitumen washers complete. i. 0.50 mm thick with zinc coating not less than 275 gram/m2 | Mtr. | 01 | 610.02 |
| 31. | Providing and fixing plained eaves boarding. i. 2nd class kail wood (300x40 mm (nominal size). | Mtr. | 01 | 889.62 |
| 32. | Providing and fixing of 0.5mm colour G.S Sheet Soffit boarding including Backing, Supports etc. Complete job. | Mtr. | 01 | 529.80 |
| 33. | 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 upto 50 m and lift upto 1.5 m. | Cum | 01 | 192.85 |
| 34. | Supplying and filling in plinth with fine sand under floors including, watering, ramming, consolidating and dressing complete | Cum | 01 | 1063.57 |
| 35. | Cement concrete flooring 1:2:4 (1cement: 2 coarse sand: 4 graded stone aggregate) finished with a floating coat of neat cement including cement slurry and curing complete, but excluding the cost of nosing of steps etc. complete. i. 40mm thick with 20 mm nominal size stone aggregate | Sqm | 01 | 450.55 |
| 36. | Brick work with common burnt clay (non-modular) bricks of class designation 7.5 in foundation and plinth including curing in : i. Cement mortar 1:6 (1 cement : 6 coarse sand) | Cum | 01 | 6685.68 |
| 37. | Extra for brick work with common burnt clay bricks/cement concrete bricks in superstructure above plinth level upto floor five level. | Cum | 01 | 1285.33 |
| 38. | Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia and length (hold fast lugs or with dash fasteners shall be paid for separately): i. Kiln seasoned and chemically treated hollock wood. | Cum | 01 | 65654.10 |
| 39. | Providing and fixing glazed shutters for doors, windows and clerestory windows using 4mm thick float glass panes including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws. | Sqm | 01 | 2729.97 |

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| | i. Kiln seasoned and chemically treated hollock wood (35mm thick) | | | |
| 40. | Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick. i. Second Class kail wood | Sqm | 01 | 2035.93 |
| 41. | Providing and fixing wire gauze shutters using galvanized M.S. wire gauze of average width for aperture 1.4 mm in both directions with wire of dia. 0.63 mm for doors, windows and clerestory windows with ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws as per direction of Engineer-in-charge : i. Kiln seasoned and chemically treated hollock wood (35mm thick) | Sqm | 01 | 2725.77 |
| 42. | Providing and fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with : i. 5.0mm thick glass panes | Sqm | 01 | 1068.43 |
| 43. | 6mm cement plaster to ceiling of mix 1 : 3 (1 cement : 3 fine sand). | Sqm | 01 | 213.02 |
| 44. | 12mm Cement plaster finished with a floating coat of neat cement of mix: i. 1 : 3 (1 cement : 3 fine sand) ii. 1 : 4 (1 cement : 4 fine sand) | Sqm Sqm | 01 01 | 327.37 311.78 |
| 45. | 15mm Cement plaster on the rough side of single or half brick wall of mix: i. 1 : 4 (1 cement : 4 fine sand) ii. 1 : 6 (1 cement : 6 fine sand) | Sqm Sqm | 01 01 | 289.49 270.95 |
| 46. | Extra for plastering exterior walls of the height more than 10m from ground level for every additional height of 3m or part thereof. | Sqm | 01 | 63.18 |
| 47. | Extra for plastering i. Spherical Ceiling | Sqm | 01 | 124.50 |
| 48. | Finishing walls with water proofing cement paint of required shade on New work (two or more coats applied @ 3.84 kg/10sqm). | Sqm | 01 | 87.19 |
| 49. | Providing and Placing in position suitable PVC water stops conforming to IS : 12200 for construction / expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete. i. Serrated with central bulb (225 mm wide, 8-11mm thick) | Mtr. | 01 | 250.11 |
| 50. | Applying priming coat: i. With ready mixed pink or grey primer of approved brand and manufacture on wood work (hard and soft wood) | Sqm | 01 | 57.04 |
| 51. | Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface. | Sqm | 01 | 59.03 |
| 52. | Wall Painting with acrylic emulsion paint of approved brand and manufacture to give an even shade. Two or more coats on new work | Sqm | 01 | 120.75 |
| 53. | Painting with synthetic enamel paint of approved brand and manufacture to give an even shade. i. Two or more coats on new work over an under coat of suitable shade with ordinary paint | Sqm | 01 | 171.87 |

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| | of approved brand and manufacture. | | | |
| 54. | Providing and applying white cement based putty of specified thickness, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete. i. 1 mm thick ii. 2 mm thick | Sqm Sqm | 01 01 | 121.94 159.86 |
| 55. | Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ liter, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour. i. Two coats | Sqm | 01 | 76.51 |
| 56. | Finishing walls with 100% Premium acrylic emulsion paint having VOC less than 50 gm/litre and UV resistance as per IS 15489:2004, Alkali & fungal resistance, dirt resistance exterior paint of required shade (Company Depot Tinted) with silicon additives. i. New work (Two or more coats applied @ 1.43 litre/10 sqm. Over & including priming coat of exterior primer applied @ 0.90 litre/10 sqm. | Sqm | 01 | 138.89 |
| 57. | Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete | Sqm | 01 | 1085.29 |
| 58. | Providing and fixing 1st quality ceramic glazed floor tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete. | Sqm | 01 | 976.64 |
| 59. | Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. s required. i. Upto 450mm Sweep | No. | 01 | 397.35 |
| 60. | Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 liter low level white P.V.C. flushing cistern, including flush pipe (of approved make) with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required. i. White vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests. | No. | 01 | 4850.54 |

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| 61. | Providing and fixing C.P. brass bib cock of approved quality. 15 mm nominal bore (long nose). | No. | 01 | 295.54 |
| 62. | Providing and fixing gyser of capacity 25Ltr. Of quality make (Havells, Haquar, Crompton etc. including all required fittings and accessories complete Job). | Job | 01 | 7064.00 |
| 63. | Providing and fixing wash basin with C.I. brackets, 15mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required : i. White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps | No. | 01 | 3684.22 |
| 64. | Providing and fixing G.I. inlet connection for flush pipe connecting with W.C. pan. | No. | 01 | 113.99 |
| 65. | Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings. | No. | 01 | 1301.67 |
| 66. | Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank | Per Ltr. Capacity | 01 | 7.73 |
| 67. | Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes conforming to IS: 15801, UV stabilized and anti-microbial fusion welded, having thermal stability for hot and cold water supply including all PP-R plain and brass threaded Polypropylene random fittings. This includes testing of joints complete as per direction of Engineer-incharge. i. Internal work Concealed fixing the pipe with clamps at 1.00 meter spacing including cutting chases and making good the wall etc. a. PN-16 pipe , 25mm OD(SDR-7.4) | Mtr. | 01 | 458.945 |
| 68. | Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors : i. 100 mm inlet and 100 mm outlet a. Sand cast iron S and S as per IS:3989 | No. | 01 | 1374.30 |
| 69. | Providing and fixing PTMT Bottle Trap for Wash basin and sink: i. Bottle trap 31 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms. | No. | 01 | 526.53 |
| 70. | Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour: i. 450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms | No. | 01 | 645.69 |

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| 71. | Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per I.S. 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required : i. Kitchen sink with drain board 18.11.1.1 510x1040mm bowl depth 250mm | No. | 01 | 5445.37 |
| 72. | Providing and fixing 15 mm nominal bore C.P. brass angle valve for basin mixer and geyser points of approved make conforming to IS : 8931 | No. | 01 | 514.21 |
| 73. | Providing and fixing PTMT stop cock of approved quality and color. i. 15 mm nominal bore, 86 mm long, weighing not less than 88 gms. | No. | 01 | 179.73 |
| 74. | Providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification. (1 kg of water proofing material in 50 kg of cement). | Kg. | 01 | 55.63 |
| 75. | Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer. i. Using M.S. angles 40x40x6mm for diagonal braces | Sqm | 01 | 4851.11 |
| | ii. Using flats 30x6mm for diagonal braces and central cross piece. | Sqm | 01 | 4713.89 |
| 76. | Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength confirming to IS:4454 part-1 and M.S. top cover of required thickness for rolling shutters. i. 80x0.90 mm M.S. laths with 0.90 mm thick top cove | Sqm | 01 | 2574.91 |
| 77. | Providing and fixing ball bearing for rolling shutters. | No. | 01 | 469.36 |
| 78. | Supply, installation, testing and commissioning of Advanced Maintenance Free environment friendly earthing system consisting of 1 No. of 3 Mtr. Length 17.2mm dia UL certified earth electrode made of high tensile low carbon steel circular rods, molecularly bonded copper on outer surface (minimum copper bonding thickness - 250 microns) with GI terminals to connect incoming strips (Environment friendly backfill compound duly certified as per ANSI / NSF standard 60/Toxic content certificate as safe for use near potable ground water resources strictly as per specification enclosed. Make : Shree Electrodes / OBO Bettermann / Erico (2 No. UPS and 4 No. Main L.T Panel / 2 No. Fire Fighting Panel). i. Earth pit chamber (300mm x 300mm) with CI cover for the above. | No. | 01 | 13951.00 |

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| 79. | Providing and fixing of 25mm x 5mm Copper Strip in 40mm dia GI Pip FRL earth Electrode including connection with brass nut, bolt, spring, washer, excavation and refilling etc. as required. | RM | 01 | 1080.79 |
| 80. | Supply, installation, testing and commissioning of lightening conductor made of 25mm dia 300mm long copper tube having single prong at top with nase plate. | No. | 01 | 1324.50 |
| 81. | Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embeddings in cement concrete block 30x10x15 cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) | No. | 01 | 183.09 |
| 82. | Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete. : i. 250x10 mm ii. 100x10 mm | No. No. | 01 01 | 329.67 141.15 |
| 83. | Providing and fixing aluminum handles ISI marked anodized (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour and shade with necessary screws etc. complete. i. 125 mm ii. 100 mm | No. No. | 01 01 | 60.04 52.98 |
| 84. | Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete: i. 2nd class teak wood (50 x 12 mm). | Mtr. | 01 | 189.62 |
| 85. | Providing and installing of PVC pipes (working pressure 4kg/cm ²) single socketed pipe 110mm /80mm dia with all necessary arrangements and fittings including Tee's, Elbows and End Caps wherever required complete job. | Mtr. | 01 | 377.04 |
| 86. | Providing and fixing of 0.63mm thick PGI sheets at construction joints including all leads and lifts complete hob as directed by Engineer - Incharge. | Sqm | 01 | 706.40 |
| 87. | Providing and carrying out wiring for heating points with 4.0Sqmm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, modular combine S&S 16Amp along wit the modular plate, suitable GI box and erarthing the point with 2Sqmm FRLS PVC insulated copper conductor single core cable etc. As required (including the cost of conduit). | Point | 01 | 1236.20 |
| 88. | Demolishing cement concrete manually/by mechanical means including disposal of material within 50 meters lead as per direction of Engineer-incharge: i. 1:3:6 or richer mix (i/c equivalent design mix) ii. 1:4:8 or leaner mix (i/c equivalent design mix) | Cum Cum | 01 01 | 1523.35 939.99 |
| 89. | Demolishing brick work manually/by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 meters lead as per direction of Engineer-in-charge: i. In cement mortar | Cum | 01 | 1287.81 |

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| 90. | Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 meters lead : i. Of area of 3 sqm. and below ii. Of area beyond 3 sqm | No. No. | 01 01 | 251.87 344.81 |
| 91. | Dismantling wood work in frames, trusses, purlins and rafters upto 10 meters span and 5 meters height including stacking the material within 50 meters lead : i. Of sectional area 40 sqcm. and above. ii. Of sectional area below 40 sqcm. | Cum Mtr. | 01 01 | 3080.48 12.32 |
| 92. | Dismantling steel work manually/by mechanical means in built up sections without dismembering and stacking within 50 meters lead as per direction of Engineer-in-charge: | Kg. | 01 | 2.47 |
| 93. | Dismantling roofing including ridges, hips valleys and gutters etc., and stacking the material within 50 meters lead of : G.S. Sheet | Sqm | 01 | 110.68 |
| 94. | Preparation of beds for hedging and shrubbery by excavating 60 cm deep and trenching the excavated base to a further depth of 30 cm, refilling the excavated earth after breaking the clods and mixing with sludge or manure in the ration of 8:1 (8 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of sludge or manure after reduction by 8 %), flooding with water, filling with the earth if necessary, watering and finally fine dressing, leveling etc. including stacking & disposal of materials declared unserviceable and surplus earth by spreading and leveling as directed, within a lead of 50 mtr. and lift upto 1.5 mtr. complete (cost of sludge, manure or extra earth to be paid for separately) | Cum | 01 | 199.25 |
| 95. | Providing and fixing G.I. pipes complete with G.I. fittings excluding trenching and refilling etc. (external work) Medium class i. 15 mm dia. nominal bore ii. 20 mm dia. nominal bore iii. 25 mm dia. nominal bore iv. 32 mm dia. nominal bore v. 40 mm dia. nominal bore vi. 50 mm dia. nominal bore vii. 65 mm dia. nominal bore viii. 80 mm dia. nominal bore ix. 100 mm dia. nominal bore x. 150 mm dia. nominal bore | Mtr. Mtr. Mtr. Mtr. Mtr. Mtr. Mtr. Mtr. Mtr. Mtr. | 01 01 01 01 01 01 01 01 01 01 | 182.34 198.85 299.55 363.17 432.00 711.43 898.93 1016.51 1266.22 1992.84 |
| 96. | Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) i. 65 mm nominal bore | No. | 01 | 1453.46 |
| 97. | Supply installation testing and commissioning of non returning valve. i. 65mm dia | No. | 01 | 3973.50 |
| 98. | Providing, fabricating, fixing of M.S fittings viz bends of suitable degrees / size to be fabricated out of 8mm to 10mm thick MS. plate as per the requirement of site. This item includes cost of lead, spun yarn, R.I. cloth and lead caulking, lead beating with insertion of spun yarn etc. The | Kg. | 01 | 229.58 |

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| | fittings should be leak proof and should be painted with Anticorrosive Red Oxide Primer and incld. all carriages, leads lifts, etc. complete. | | | |
| 99. | Providing and fixing D.I. Sluice Valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately confirming to IS:14846 read with latest amendments. i. 65mm dia Class 1 ii. 80mm dia Class 1 iii. 100mm dia Class 1 iv. 125mm dia Class 1 v. 150mm dia Class 1 vi. 200mm dia Class 1 vii. 250mm dia Class 1 viii. 300mm dia Class 1 ix. 350mm dia Class 1 | No. No. No. No. No. No. No. No. No. | 01 01 01 01 01 01 01 01 01 | 15011.00 16777.00 17660.00 19426.00 26490.00 35320.00 52980.00 70640.00 88300.00 |
| 100. | Providing and laying flanged C.I. / D.I standard specials such as tees, bends, collars, tapers, caps etc., suitable for flanged jointing as per IS : 1538 i. Up to 300 mm dia. ii. Over 300 mm dia. | Qtl. Qtl. | 01 01 | 7540.11 7776.36 |
| 101. | Providing, fixing of M.S flanges by welding including cost of cutting making both holes made out of 10/14mm thick M.S plate to the pipes of different dia's and including cost of nuts, bolts, washers etc. (Complete Job). i. 65mm dia ii. 80mm dia iii. 100mm dia iv. 125mm dia v. 150mm dia vi. 200mm dia vii. 250mm dia | Joint Joint Joint Joint Joint Joint Joint | 01 01 01 01 01 01 01 | 794.70 838.85 971.30 1059.60 1147.90 1236.20 1589.40 |
| 102. | Providing and fixing ISI marked aluminum butt hinges ISI marked anodized (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete : i. 75x63x3.2 mm ii. 100x63x4 mm | No. No. | 01 01 | 69.05 94.35 |
| 103. | Supplying and fixing of following modular switch / socket on the existing modular plate and switch box including connections but excluding modular plate etc. as required. i. 5/6A Switch ii. 3 Pin 5/6A Socket outlet 6Amp iii. 3 Pin 5/6A Socket outlet 16Amp | No. No. No. | 01 01 01 | 90.95 107.73 137.75 |
| 104. | Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge. i. Made of G.I. wire of dia 4 mm | Sqm | 01 | 715.14 |
| 105. | Providing and fixing G.I. Pipes complete with G.I. fittings excluding trenching and refilling etc. (external work). i. Medium class double flanges with gasket 65mm dia nominal bore (GI Inlet Pipe from OHT to Collection Chamber). ii. Medium class double flanges with gasket | RMT RMT | 01 01 | 896.99 1014.57 |

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| | 80mm dia nominal bore (GI Suction Pipe from Collection Chamber to borewell / tube well). | | | |
| 106. | Providing and laying Double Flanged (Screwed/Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K-9 conforming to IS : 8329 i. 100 mm dia Ductile Iron Double Flanged ii. 150 mm dia Ductile Iron Double Flanged | Mtr. Mtr. | 01 01 | 1351.52 2027.05 |
| 107. | Providing and laying D.I. Specials of Class K-12 suitable for mechanical jointing as per IS:9523 i. Upto 600mm dia. | Qtl. | 01 | 15868.97 |
| 108. | Demolishing R.C.C. work manually/by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 meters lead as per direction of Engineer-in-charge. | Cum | 01 | 2222.38 |
| 109. | Steel reinforcement for R.C.C. work ready to use "cut and bend" rebars of approved make from factory/workshop to construction site including placing in position and binding all complete above plinth level. i. Thermo-Mechanically Treated bars of grade Fe-500D or more | Kg. | 01 | 102.64 |
| 110. | Providing and fixing ventilator of size 450mm x 450mm made out of angle iron 40mm x 40mm with wire mesh of 25mm x 25mm size including welding charges and including all carriages upto site of work. | No. | 01 | 1324.50 |
| 111. | Providing & laying damp-proof Course 40 mm thick with cement concrete 1:2:4 (1 cement:2 coarse sand: 4 graded stone agg 12.5 mm nominal size) and curing complete. | Sqm | 01 | 306.13 |
| 112. | Providing and fixing aluminum round shape handle of outer dia 100mm with SS screws etc. Complete as per direction of Engineer-in-charge i. Anodized (AC 15) aluminum | No. | 01 | 78.71 |
| 113. | Providing and installing 8W Round Led Ceiling Light Complete Job. | No. | 01 | 220.75 |
| 114. | Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth, lead upto 50 meter and lift upto 1.5m, as directed by Engineer-in-Charge. All kinds of soil : | Cum | 01 | 81.01 |
| 115. | Providing and fixing aluminum tower bolts ISI marked anodized (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete : i. 150x10 mm ii. 200x10 mm | No. No. | 01 01 | 73.99 84.19 |
| 116. | Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/by mechanical means including stacking of pipes within 50 meters lead as per direction of Engineer-in-charge : i. Above 40 mm nominal bore | Mtr. | 01 | 107.41 |
| 117. | Carriage of material by mechanical transport including loading, unloading, stacking of material. B. Sand i. For an avg. lead of 3Kms. | Cum | 01 | 146.44 |

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| ii. | For an avg. lead of 4Kms. | Cum | 01 | 162.10 |
| iii. | For an avg. lead of 5Kms. | Cum | 01 | 177.25 |
| iv. | Beyond 5Kms upto 10Kms per Km | Cum | 01 | 13.82 |
| v. | Beyond 10Kms upto 20Kms per Km | Cum | 01 | 11.55 |
| vi. | Beyond 20Kms per additional Km | Cum | 01 | 9.74 |
| C. Aggregate below 40mm | | | | |
| i. | For an avg. lead of 3Kms. | Cum | 01 | 146.43 |
| ii. | For an avg. lead of 4Kms. | Cum | 01 | 162.10 |
| iii. | For an avg. lead of 5Kms. | Cum | 01 | 177.25 |
| iv. | Beyond 5Kms upto 10Kms per Km | Cum | 01 | 13.82 |
| v. | Beyond 10Kms upto 20Kms per Km | Cum | 01 | 11.55 |
| vi. | Beyond 20Kms per additional Km | Cum | 01 | 9.74 |
| D. Aggregate above 40mm | | | | |
| i. | For an avg. lead of 3Kms. | Cum | 01 | 159.17 |
| ii. | For an avg. lead of 4Kms. | Cum | 01 | 176.20 |
| iii. | For an avg. lead of 5Kms. | Cum | 01 | 192.66 |
| iv. | Beyond 5Kms upto 10Kms per Km | Cum | 01 | 15.03 |
| v. | Beyond 10Kms upto 20Kms per Km | Cum | 01 | 12.56 |
| vi. | Beyond 20Kms per additional Km | Cum | 01 | 10.59 |
| E. Stone Soling: | | | | |
| i. | For an avg. lead of 3Kms. | Cum | 01 | 172.27 |
| ii. | For an avg. lead of 4Kms. | Cum | 01 | 190.71 |
| iii. | For an avg. lead of 5Kms. | Cum | 01 | 208.52 |
| iv. | Beyond 5Kms upto 10Kms per Km | Cum | 01 | 16.27 |
| v. | Beyond 10Kms upto 20Kms per Km | Cum | 01 | 13.59 |
| vi. | Beyond 20Kms per additional Km | Cum | 01 | 11.46 |
| F. Steel / CGI Sheets: | | | | |
| i. | For an avg. lead of 3Kms. | Cum | 01 | 130.16 |
| ii. | For an avg. lead of 4Kms. | Cum | 01 | 144.09 |
| iii. | For an avg. lead of 5Kms. | Cum | 01 | 157.55 |
| iv. | Beyond 5Kms upto 10Kms per Km | Cum | 01 | 12.29 |
| v. | Beyond 10Kms upto 20Kms per Km | Cum | 01 | 10.26 |
| vi. | Beyond 20Kms per additional Km | Cum | 01 | 8.66 |
| G. Earth: | | | | |
| i. | For an avg. lead of 3Kms. | Cum | 01 | 183.04 |
| ii. | For an avg. lead of 4Kms. | Cum | 01 | 202.63 |
| iii. | For an avg. lead of 5Kms. | Cum | 01 | 221.56 |
| iv. | Beyond 5Kms upto 10Kms per Km | Cum | 01 | 17.29 |
| v. | Beyond 10Kms upto 20Kms per Km | Cum | 01 | 14.44 |
| vi. | Beyond 20Kms per additional Km | Cum | 01 | 12.18 |
| H. Cement: | | | | |
| i. | For an avg. lead of 3Kms. | MT | 01 | 130.16 |
| ii. | For an avg. lead of 4Kms. | MT | 01 | 144.09 |
| iii. | For an avg. lead of 5Kms. | MT | 01 | 157.55 |
| iv. | Beyond 5Kms upto 10Kms per Km | MT | 01 | 12.29 |
| v. | Beyond 10Kms upto 20Kms per Km | MT | 01 | 10.26 |
| vi. | Beyond 20Kms per additional Km | MT | 01 | 8.66 |
| I. Sand: | | | | |
| i. | For an avg. lead of 50Mtr. | Cum | 01 | 177.19 |
| ii. | Beyond 1st 50Mtr. | Cum | 01 | 38.57 |
| J. Aggregate below 40mm: | | | | |
| i. | For an avg. lead of 50Mtr. | Cum | 01 | 177.19 |
| ii. | Beyond 1st 50Mtr. | Cum | 01 | 38.57 |
| K. Aggregate below 40mm and above: | | | | |
| i. | For an avg. lead of 50Mtr. | Cum | 01 | 191.56 |
| ii. | Beyond 1st 50Mtr. | Cum | 01 | 41.70 |
| L. Stone Soling: | | | | |
| i. | For an avg. lead of 50Mtr. | Cum | 01 | 232.29 |
| ii. | Beyond 1st 50Mtr. | Cum | 01 | 45.38 |
| M. Steel / CGI Sheets: | | | | |
| i. | For an avg. lead of 50Mtr. | Cum | 01 | 220.40 |
| ii. | Beyond 1st 50Mtr. | Cum | 01 | 32.34 |

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| | <p>N. Earth:</p> <p>i. For an avg. lead of 50Mtr.</p> <p>ii. Beyond 1st 50Mtr.</p> | <p>Cum</p> <p>Cum</p> | <p>01</p> <p>01</p> | <p>177.19</p> <p>38.57</p> |
| | <p>O. Cement:</p> <p>i. For an avg. lead of 50Mtr.</p> <p>ii. Beyond 1st 50Mtr.</p> | <p>Cum</p> <p>Cum</p> | <p>01</p> <p>01</p> | <p>102.62</p> <p>15.05</p> |
| B. | Mechanical / Electrical Part | | | |
| 118. | <p>Supply, installation, testing and commissioning of Horizontal pumping unit as per IS 1520 with following specification:- Pump:-</p> <p>Discharge: 29000 LPH</p> <p>Dynamic Head: 36 Meters</p> <p>1.Type :- Horizontal Split casing</p> <p>Material of construction</p> <p>1.Impeller:- Stainless Steel/ Bronze/ CF8M</p> <p>2.Shaft:- SS410</p> <p>3.Pump casing:- Cast Iron</p> <p>4. Speed :- 2900 rpm</p> <p>The pump shall conform to IS-1520 code MOTOR :-</p> <p>A) Type :- Horizontal squirrel cage Induction Type</p> <p>B) Rating:- Suitable for above parameters/As per OEM</p> <p>C) No of phases: 3 phase 415 V\pm10%,50Hz \pm 3%, AC supply</p> <p>D) Winding:-Copper wound squirrel cage</p> <p>E) Type of enclosure:-TEFC</p> <p>F) Method of cooling: Air cooled with fan mounted</p> <p>G) Method of Starting: star delta</p> <p>The pumping unit should be mounted on a common base frame fabricated out of M.S channel of suitable size and duly fitted with T-type foundation bolts /nuts and washers to make the pumping unit vibration free. The pumping equipment is to be installed on the concrete foundation base with J Bolts. Job includes testing and commissioning of pumping unit on full load at site.</p> <p>Note: Test certificate having the Serial No. of the Pumping Unit along with the performance curve in duplicate and Material of Construction from the Manufacturer must be produced on delivery of the item</p> | Job | 01 | 104165.70 |
| 119. | <p>Providing/supplying and fitting of G.I flanged Rising Main at site. The Pipe shall be hot dip Galvanized, class C conforming to IS 1239. The job includes providing and fitting of M.S Flanges conforming to BIS 6392/1997 Table 17 (Rating PN16). The flanges shall be double welded both from inside and outside of the pipe using standard electrode of reputed make. The job includes Providing and fitting of 90-120 degree bend/elbows to be fabricated out of Class C GI pipes flanged on both ends a to make it leak proof Flanges (as per IS 6392/1997 Table:17) Thickness shall conform to IS 6392 Part 1st Table-17. The flange welding shall be carried out in double layers using reputed make electrodes to form strong welding joint.</p> <p>Welding Electrode:</p> | Mtr. | 01 | 1071.96 |

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| | <p>DC Arc Welding using welding electrode having diameter not less than 4mm. Nuts and Bolts of required size. Rubber Insertion Gaskets: Rubber Insertion Gaskets to be used between flanged joints. The main technical specifications of the pipe are given here under: ND= 65 mm Class: C (Heavy)</p> | | | |
| 120 | <p>Providing/supplying and fitting of GI flanged suction and delivery pipe in lengths of 1m/2m at site. The Pipe shall be Class- C conforming to relevant IS Code. The job includes providing and fitting of M.S Flanges conforming to BIS 6392/1997 Table 17 (Rating PN16). The flanges shall be double welded both from inside and outside of the pipe using standard electrode of reputed make. Flanges (as per IS 6392/1997 Table:17) The job includes the cost on account of P/F of nuts, bolts and gasket required for the job. The job includes Providing and fitting of 90-120 degree bend/elbows to be fabricated out of Class C GI pipes flanged on both ends a to make it leak proof Flanges (as per IS 6392/1997 Table:17) Thickness shall conform to IS 6392 Part 1st Table-17. ND= 80 mm Class: C (Heavy)</p> | Mtr. | 01 | 1311.25 |
| 121 | <p>Fabrication, providing and fitting of washout Tee. The Tee shall be fabricated out of G.I C-class pipe with M.S Flanges conforming to BIS 6392/1997 Table 17 (Rating PN16) fastened with weld joints on three ends. The size of the Tee is given Below: ND= 65 MM Class: C (Heavy)</p> | Job | 01 | 4041.49 |
| 122. | <p>Providing and fitting of, Ductile Iron double flanged, non-rising spindle soft seated glandless gate/ sluice valves as per IS14846 for regulating the water supply outside the pumping units. The body and bonnet of the valve shall be of ductile iron, wedge with fully vulcanized EPDM rubber (Approved for drinking water) and NBR seal. The Gate/Sluice valve shall be compatible for buried applications and shall be safe to install in both horizontal and vertical positions. It shall have electrostatic epoxy coating (approved for drinking water) both inside and outside of the valve. The valve shall be supplied along with hand wheel. Cost on account of Nuts, bolts, gaskets, etc required for the job is included in the scope of work. The job includes providing and fitting of 02 nos. M.S flanges perfectly adaptable to the inbuilt flanges of the valve which shall be fitted with rising main of the pumping unit at appropriate spots as per site requirement. The job includes the cost on account of P/F of nuts, bolts and gasket required for the job. Size: DN 65 mm PN:1.6/16</p> | Job | 01 | 11770.39 |

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| | The Test Certificate of sluice Valves duly stamped by manufacturer shall be provided at the time of supply of material, | | | |
| 123. | <p>Providing and fitting of Ductile Iron double flanged, Slanted seat swing check valve(NRV) as per IS 5312. The body shall be of ductile cast iron with fully encapsulated vulcanized EPDM rubber(Approved for drinking water). The valve shall be compatible for buried applications and shall be safe to install in both horizontal and vertical positions.</p> <p>It shall have electrostatic epoxy coating (approved for drinking water) both inside and outside of the valve.</p> <p>Cost on account of Nuts, bolts, gaskets, etc required for the job is included in the scope of work.</p> <p>The job includes providing and fitting of 02 nos. M.S flanges perfectly adaptable to the inbuilt flanges of the valve which shall be fitted with Rising main of the pumping unit at appropriate spots as per site requirement. The job includes the cost on account of P/F of nuts, bolts and gasket required for the job.</p> <p>Size: DN 65 mm</p> <p>PN:1.6/16</p> <p>The Test Certificate of NRV s duly stamped by manufacturer shall be provided at the time of supply of material</p> | job | 01 | 13380.10 |
| 124. | <p>Providing and fitting of Ductile Iron double flanged, Slanted seat swing check valve(NRV) as per IS 5312. The body shall be of ductile cast iron with fully encapsulated vulcanized EPDM rubber(Approved for drinking water). The valve shall be compatible for buried applications and shall be safe to install in both horizontal and vertical positions.</p> <p>It shall have electrostatic epoxy coating (approved for drinking water) both inside and outside of the valve.</p> <p>Cost on account of Nuts, bolts, gaskets, etc required for the job is included in the scope of work.</p> <p>The job includes providing and fitting of 02 nos. M.S flanges perfectly adaptable to the inbuilt flanges of the valve which shall be fitted with Rising main of the pumping unit at appropriate spots as per site requirement. The job includes the cost on account of P/F of nuts, bolts and gasket required for the job.</p> <p>Size: DN 80 mm</p> <p>PN:1.6/16</p> <p>The Test Certificate of NRV s duly stamped by manufacturer shall be provided at the time of supply of material</p> | job | 01 | 15442.79 |
| 125. | <p>Providing, fitting, testing and commissioning of ARV (Air Release valve) as per IS 14845 to be fitted to risingMain. The ARV Shall have the following specifications:</p> <p>i. Valve type - single chamber, single orifice.</p> | | | |

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| | ii. End connection - flanged ends to IS 1538 iii. Working temperature - 70°C to 55 c iv. Test pressure - body / seat 2.5 x PN v. Sealing ring - EPDM vi. Construction - ductile iron with stainless steel floats vii. Coating - epoxy with corrosion resistance Besides the above works, The job also cost on account of P/F R.I gasket, nuts and bolts required for installation of ARV and arrangement of gas cutter/ welding set at site. Size: 50mm PN: 1.6/16 The Test Certificate of ARV duly stamped by manufacturer shall be provided at the time of supply of material | Job | 01 | 17124.90 |
| 126. | Supply, Installation, Testing And Commissioning of 25 KVA voltage stabilizer as per specifications below: Type of voltage controller: Manually operated copper wound, 3-phase, AC power supply multi step. Type of Regulator : Double plate type with electrolytic copper contacts. Input voltage : 180-400 volts.(3 phase) Output voltage : 415 ± 10% volts. Frequency : 50 ± 3 C/S. Windings: Electrolytic grade copper of adequate section, vacuum impregnated and Oven-dried. Insulation : Fiber glass insulations to tested parameters. Cooling : Naturally, Oil cooled (ONAN) Temp. Rise (Max):30°C above ambient Mounting :On Uni-directional wheels. Correction rate : 30 volts per step Wave form distortion :virtually nil Duty cycle : 100% continuous Enclosure : MS sheet enclosure in pressed CGR Sheet powder coated with radiators. Core laminates : High grade, low eddy loss, grain oriented silicon steel laminations. Load : Three phase induction motor load. Load Amperes (continuous) Overload in 24-hours operation: 10% above continuous Ampere rating. The voltage stabilizer shall have T-oil level indicator gauge preferably glass type tube or otherwise visible to naked eye. The top of the container to have a display panel for housing 02 numbers Digital voltmeters (0-500V) along with 4-way selector switch and set of neon indicators for incoming and outgoing phases (06 No's). Insulating media (T. Oil) of 11 KVA grade to be provided and filled up to top level, with dielectric strength of 5 KV at 4m air gap. The T-Oil of specific grade should be provided in separate barrels and filled at site up to top level. The voltage Stabilizer shall be accepted with manufacturers dully stamped test certificate and shall have name plate with specifications. | job | 01 | 52044.02 |
| 127. | Supply, Installation, Testing And Commissioning of OFF-Load (Side operated) Changeover Switch in | No. | 01 | 16777.00 |

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| | Separate SS Enclosure as below Capacity:- 200 Amp, 415V, 50hz Type: OFF Load Voltage : 415V No of Poles: 4 Operation: Side Operated Standard Conformity: IS / IEC: 60947 - 1&3 | | | |
| 128. | Supply, Installation, Testing And Commissioning of 25 KVA outdoor type Electric Sub Station as per the technical specifications given here under - Specifications conforming to IS: 1180 (Part 1) 2014 with latest amendments. Type: HT/LT Transformer (Level-2) Type of cooling: ONAN. Operating conditions: Input =11000 volts Output = 433 volts AC supply in 3- phase. Terminals: Input=3 No. HT Brass bush rods with insulators, washer, nuts etc. Output=4 No. LT Brass bush rods switch insulators, washers, nuts etc. Core: The core shall be of high permeability to reduce core losses and the strips shall be of suitable size and gauge. Transformer Coils: Suitable number of HT and LT coils in each leg of the core. The transformer coils shall be fabricated out of superior quality aluminum wire/strips, properly wound. The HT transformer is completely filled with suitable grade transformer oil up to required level. The job includes carriage, and all leads and lifts involved. The HT transformer shall be of reputed make from an ISO certified company as per relevant standards and a test certificate shall be provided before installation. The transformer shall also be provided with breather fill with silica jel crystals, conservator with oil level indicator, explosion vent and adequate radiator fins/ Tubes. The impedance of transformer shall be as per IS: 1180 (Part 1) 2014 with latest amendments. NOTE: The scope of the work shall include obtaining of necessary inspection/clearance certificate from the concerned department for all the required equipment. The testing and commissioning shall be completed only after obtaining above certificate. | No. | 01 | 65732.29 |
| 129. | Supply, installation, erection of 9 mtrs long H.T pole of specifications ST- 410 (SP-33) . The job further includes drilling of holes for installation of various accessories .wherever required the job further includes G.I wire earthing of pole as per REC standard. The tubular steel poles shall conform to the latest edition of Indian Standard specification IS: 2713 (Part - I, III): 1980 The materials used in construction of tubular steel poles shall be of the tested quality of steels of minimum tensile strength 540 MPa. The Poles shall be fitted with base plate as per above standard. The poles shall | No. | 01 | 18265.74 |

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| | be applied with Red Oxide Primer and two coats of anti-corrosive Red paint at bottom up to the length of 4M and two coats of paint of silver shade for the rest. | | | |
| 130. | Providing and fitting G.I Channel /Angle/ Flat of sizes including clamps and other allied items. The job includes fitting of Channels on two poles for the installation of insulators and safety devices, GO Set, Lighting Arrestor etc. It also includes the channels for fitting of LT Meter and LT Distribution Box. The job includes P/F of GI channels at Tapping point for installation of GO Link Set, Pin Insulators Etc as per site requirement | Kg. | 01 | 123.62 |
| 131. | Supply, Installation, Testing and commissioning of 02 No. Polymeric Gang operated Air break switch, outdoor type, triple pole, suitable for vertical installation, single break provided with locking arrangement at both ON and OFF position consisting of HT pole double insulator, copper or copper alloy high pressure heavy contact assembly, rod with bearings, operating handle and 2 length of 32mm dia. GI pipe conforming to IS 1818 1961, 06 No. of insulators, rated voltage 11KV 200A complete as per IS specs. The 11 KV AB switches shall conform to IS: 9920 (Part-I to IV). 01 No. GO Set is to be fitted at tapping point and 01 No at HT Transformer (Substation) | Job | 01 | 10357.59 |
| 132. | Supply, Installation, Testing and commissioning of 11KV polymer fuses Set Horn Gap 3-phase 200 A suitable for vertical installation. | Job | 01 | 4399.99 |
| 133. | Supply, Installation, Testing and commissioning of Gapless Surge arrestor station class, 10KA, 9KV, LA With polymer housing, Station Type. | Set | 01 | 6846.78 |
| 134. | Supply and fitting of 11 KV polymeric composite pin insulator 12 KV, 5KN, Lighting impulse 75KV Positive, and 80 KV Negative, creepage distance 320 mm | Nos. | 01 | 306.40 |
| 135. | P/F of Galvanized nuts, bolts of various sizes as per site requirement | Kg | 01 | 123.62 |
| 136. | P/F Danger Plate with clamps | Nos | 01 | 132.45 |
| 137. | Providing and fixing G.I Barbed wire for anti-climbing/ anti-climbing devices. The barbed wire shall be tightly close wrapped around the pole for 10-12 turns, commencing at 2.50m above the datum line. | Kg | 01 | 123.62 |
| 138. | P/L of ACSR conductor of size 0.03 as per the relevant IS standard. | M | 01 | 32.67 |
| 139. | Supply, Installation, Testing And Commissioning of 35 sq mm XLPE HT cable (ABC type) of 11 KV Grade with following specifications size cross sectional area in square mm)= 3x35 sq mm including messenger wire phases Red, Yellow, Blue The Cable should conform to IS: 8130-1984, IS: 398(Part- IV)-1994, IS: 7098(Part-II)-2011 & IS: 5831-1984 with up to date amendments, if any. | Mtr. | 01 | 722.29 |
| 140. | Supply, Installation, Testing And Commissioning 11 KV cable termination kit for connecting 35 Sq mm XLPE cable (ABC type) with the existing HT | Set | 01 | 7941.70 |

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| | line near tapping point and HT transformer. | | | |
| 141. | Supply, Installation, Testing And Commissioning of LT Distribution box for H.T transformer with MCCB For incomer and SFU for outgoing circuits. The LT distribution Box is to be fitted on GI Channels. | job | 01 | 24828.19 |
| 142. | Supply, Installation, Testing And Commissioning of PRODIGY LT Meter of following specification complete with all fixtures required for fitment at site Type: E3L100, 3 Phase, 4 wire Measurements offered: KWh, KVARh, KVAh, KVA Voltage : 3x240V(415v), 50HZ Ib : 40A Imax: 200A Battery: Lithium The Prodigy Meter must be fitted inside the Box, that is to be fitted on GI Channels near LT Distribution Box. Both the enclosures must be symmetrical Sealing /Inspection report of Prodigy meter from JKPDCL (Concerned) is to be submitted by the firm at the time of charging of SUBSTATION. | job | 1 | 25607.00 |
| 143. | <p>Modular motor control Panel Supply, Installation, Testing And Commissioning of Modular motor control panel of appropriate size fabricated out of 14 SWG sheet having required openings/vents & fitted with accessories as under:</p> <p>a) Bus bar Chamber: The bus bar chamber shall be fitted at the top of the panel horizontally throughout the length. There shall be 3 Nos. of phase bus bar and 1 No neutral bus bar and 1 No earthing bus bar. The bus bars shall be air insulated and made-up of high conductivity COPPER with current density of suitable rating for 160 Ampere. All panel compartments shall be provided with suitable cable alley and vertical bus bar alley. Suitable segregation shall be provided in between bus bar chamber and adjoining compartments. The bus bar shall be PVC sleeved with color strips of red, yellow, blue and black and the same be arranged in accordance with IS-375 specs. Electrical clearances shall be maintained between phases, neutral and body as per standards.</p> <p>b) Main Circuit Breaker (Incomer MCCB): Qty. = 02 No. of poles = 4 Pole Current Rating = 160A Rated operational voltage = 415 V \pm 10 % Rated frequency = 50 \pm 3%Hz Ambient temperature = -70C to 40 OC Type of release = Thermal-Magnetic Overload protection = 0.8 - 1\timesIn adjustable Short-circuit protection = 6-10\timesIn adjustable. Ultimate S.C Breaking Cap. at (415V AC, 50 Hz) = 50kA</p> <p>c) Change over Switch: Qty. = 01 No. Rating = 160A Type = Front operated, on load, 4 pole, 415 +10 %V, 50 + 3%Hz.</p> <p>d) Motor Back-up Protection MCCB: Qty = 2 No No. of poles = 3P</p> | | | |

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| | <p>Current Rating = 100A Rated operational voltage = 415 V ± 10 % Rated frequency = 50 ± 3% Hz Ambient temperature = -70C to 40 0C Ultimate S.C Breaking Cap. at (415V AC, 50 Hz) = 50kA</p> <p>e. Starters:- Fully automatic star delta starters. Power Specs = 3 Φ, 415 ± 10 % V, 50 ± 3 % Hz. Relay range = 13-22 A Coil Voltage = 380 v Protection = single phasing , phase Reversal, phase unbalance (55 ± 5 V) Conformity to standard = IS/IES 60947-4-1 Qty. = 2 No's</p> <p>f) Auxiliary MCCB for Heating/Lighting: Circuit Breaker = MCCB (Outgoing) Qty. = 1 No. No. of poles = 4P Current Rating = 63A Rated operational voltage = 415 V ± 10 % Ultimate S.C Breaking Cap. at (415V AC, 50 Hz) = 36kA</p> <p>g) Motor Protection Relay: Digital Motor Protection Relay with LCD Display for 3-phase supply with following protections suitable for the Modular Control Panel:- Protections = Thermal Overload with pre-alarm, Short Circuit, Phase Loss, Unbalance, Phase reversal, Under Current, Prolong starting, Locked Rotor & Earth fault. And over current Qty. = 03 No's (01 No. for each starter)</p> <p>h) M-power module for mobile starter for motor 1P/3P 3 wire Quantity - 03 no. IVRS Languages - English , Hindi, Suitable Region- North India</p> <p>i) Over Voltage and Under Voltage Protection relay (02No.) to be fitted separately for each starter The panel shall be provided with phase indicators (03 NO) and digital ammeter of range 0-60 A, digital voltmeter of range 0-500 V, and digital frequency meter (01 No each). The enclosure of the panel shall be of excellent fit and finish, corrosion resistant and powder coated gliding hinges for smooth and noiseless movement of windows and advanced locking arrangements.</p> | Job | 01 | 157349.70 |
| 144. | Providing and Fitting of 3.5 Core, XLPE, 1.1KV grade Armored LT Aluminum Cable of various sizes conforming to IS: 7098 part 1st as service line from the HT transformer/AVR to control panel including necessary thimbling, crimping, taping etc. | | | |
| 145. | 35 Sq mm, 3.5 core LT cable | Mtr. | 01 | 335.54 |
| 146. | 10 sqmm, 2 core, LT cable | Mtr. | 01 | 143.04 |
| 147. | Providing and fitting of 10 sq mm single core copper cable for interconnecting various electrical gadgets as per IS 694: 2010 along with thimbling as per requirement. The job includes laying of cable in cable tray wherever necessary. | Mtr. | 01 | 130.68 |

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| 148. | Supply, Installation, Testing And Commissioning perforated cable trays including horizontal and vertical bends, tees, cross members and other accessories as required and duly bolted to walls of building with Geyser bolts including Nuts and Washers Size= 150x50x1.6mm | Mtr. | 01 | 794.70 |
| 149. | Supply, Installation of earthing station for electric substation, LT panel and stabilizer comprising of company fabricated earthing electrode as per IS: 3043. The job includes Auguring of bore of required dia/depth for installation of electrode along with backfill compound mixed with soil and all other items required thereof for achieving the best result. The job includes connecting of electric gadgets through GI strip as per relevant standards. Safe earthing electrode size : 80 mm dia , Length : 2000 mm Back fill compound : 30 kg | Job | 01 | 9237.94 |
| 150. | Illumination of Premises: Providing and erection of 9 Mtr long Hot Dip Galvanized octagonal pole (single Section) with bottom 150mm, top 75mm wide, thickness 3mm with 70 Microns Zinc coating having inside arrangement for providing of power connection along with following items. 01) 01 No MCB 16 Amp, 2 pole The job includes fabrication, providing and fitting of single arm GI structure at the top having 15' inclination with respect to horizontal plane. Arm should be of 2' length and size and shape appropriate as per requirement of the luminary. The job also includes providing and fitting of required length of flexible multi strand 2 mm copper wire from each terminal connector to each holding arm. The pole is mounted on 1:2:4 Cement concreting of size not less than 2'x2'x6" (cost of concreting not included in the job) using 04 No anchor bolts of required size not less than 7" in length. The complete job includes earthing in GI Electrode as per relevant IS Code | Job | 01 | 19625.56 |
| 151. | Providing, installation, testing and commissioning of area lighting 120 Watt LED (Street Light Type) on top of octagonal pole , having following specs: Input: 90-240 V 50 Hz, Power Factor: >0.9 Colour Temperature: 4K - 6.5K, Beam Angle: 120' - 170', Lumens: >12000, Operating Temperature: -20°C to 60°C The LED is pressure die cast aluminum housing with power coated finish and having Ingress Protection not less than IP-66 The LED is properly fitted on the arm of the pole and connected to the copper wire as provided in the high mast pole | Job | 01 | 8376.13 |
| 152. | Supply, Installation, Testing And Commissioning of Junction Box with DP 32 A MCB to serve as Main switch for LED Lighting. The job includes connecting the junction box to the main power supply from panel. | Job | 01 | 1966.44 |

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| 153. | Supply, Installation, Testing And Commissioning of 5KVA fully automatic voltage stabilizer with input voltage 70-240 V and output 220 V. The stabilizer shall be installed and connected to the electric circuit as per location provided by site in charge. The voltage stabilizer is to be connected to the heating and lighting circuit of the scheme including the street lights. | Job | 01 | 11920.50 |
| 154. | Supply, installation, Testing & commissioning of 1000VA Full Sine wave power inverter including Providing / Installation of 12V, 180AH Tubular inverter Battery with trolley and cover. with 2-core 4 mm ² Cu (25 m) wiring as per site requirement along with other accessories like SS- Combine (02 No's), 3-pin plugs etc of reputed make for proper fitment and installation of the item. | Jobs | 01 | 30068.80 |
| 155. | Providing, laying & fixing with adhesive/bonding material of insulation rubber mats on the floor of the pump house, covering area around electro-mechanical machinery for safeguarding the life & limb of the workmen due to possible leakage of current & short circuit. The floor surface shall be made good & shall be free from dust, grease, foreign material & moisture free. The mats shall be as per IS 15652:2006 & shall have the following specifications: Composition: Rubber (synthetic mats for electrical purpose) Thickness: - 2.5 mm Size: - 1M wide. | Mtr. | 01 | 1064.01 |
| 156. | TOOL KIT For Maintenance: - The Tool Kit for maintenance shall comprise of the following and all the items as mentioned below shall be of : Providing of tool kit consists of following items (Taparia /Bosch) i. Double ended Spanner (Chrome plated) 02 sets complete ii. Double ended Ring spanners chrome plated 02 sets complete iii. Allen key set black finish 02 sets complete iv. Combination Pliers insulated with thick C.A sleeve; size in mm 165, 210, 255 each - 02 No. v. Long nose pliers insulated with thick C.A sleeve; size in mm 165, 205 each - 02 No. vi. Side cutting pliers insulated with thick C.A sleeve; size in mm 165, 205 make - 02 No. vii. Insulated screw Drivers (Taparia /Bosch) Blade length Blade dia. Tip dimensions Quantity 50 3 1.6 x 0.4 02 75 3 1.6 x 0.4 02 100 3 3 x 0.4 02 125 3.5 3.5 x 0.5 02 150 3.5 3.5 x 0.5 02 200 4 4 x 0.6 02 300 5 5 x 0.8 02 viii. Hammer with handle weight - 110 mg, 340 gm , 600 gm -each - 1No. ix. Heavy duty pipe Wrench length in mm - 200, 300, 600 each - 01 No. x. Electric Multi-meter =1No | Job | 01 | 25465.72 |

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| | xi. Digital Clamp tester capable to measure up to 400A - 1 No. xii. Hack saw frame with hack saw blade - 01 no xiii. S-16 MXL, S- 16 H X L Socket Set (19 sockets + 6 Accessories) - 01 No. The tool kit is to be provided in tool box of Make: Taparia /Gear Wrench/ Stanley | | | |
| 157. | Fabrication of 7' (L) x 6'(B) x 1.5' (H) angle iron bed for operators with back-height of 2 feet by way of providing and fitting of Structural steel 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 welded | Kg | 01 | 123.62 |
| 158. | Providing and fitting of 19 mm thick multilayered ply sheet of size 6 x 3 feet , 3 no's including cutting , fixing all complete including painting of the play sheet by one coat of primer and two coats of enamel paint | Sft | 01 | 135.98 |
| 159. | a) Providing of good quality bedding for night stay/Shift consisting of: - i) Mattress with warm cover size 6'x3' (6Kg)- 02 No's ii) Quilt with warm cover size 5'x8' (6Kg)- 02 No's iii) Pillows with covers - 02 No's iv) Single bed warm blankets with one sided Fur- 02 No's The filling material for mattress, quilt and pillow shall be of good quality cotton b) The job also includes providing of pressure cooker 5ltr 02 No's, Steel patella (utensil) 5ltrs 02 No's, cooking heater 01 No., room heater 01 No., steel buckets 10 litre capacity 01 no., Plastic bucket 10 litre capacity with Mug 02 No's each, steel glasses 06 No's, steel Plates with large spoons and bowls 03 No's each, Cup and Saucer set (01 No. Set) and, Induction cook top. The job also includes providing of thermo-cool 15'x12' along with excel matting of 15'x12' size. The job also includes providing of unbreakable Plastic Chair table set consisting of chairs 04 No's, extra heavy Table 01 No. The job also includes providing of good quality safety Door locks (03 No's) of Godrej, Link locks | Job | 01 | 34983.58 |
| 160. | Providing of 6.0 meter (20.0 ft) Foldable, portable & compact aluminum Telescopic Ladder, EN131 Certified., built from rust- proof, high-grade aluminum alloy and precise engineered HDPE components to ensure maximum corrosion resistance. It should be designed for use in all climatic and weather conditions and to enhance safety, and a strong grip even on wet surfaces. Ladder should be easy to extend and retract with storage straps, convenient to use, store and carry around. The length of step should be 40-50cm Approximately with distance of 40-50cm between steps. | Job | 01 | 17218.50 |
| 161. | Providing of Industrial Rubber 11 KV Electrical Hand Shock Proof Safety Gloves for handling electrical equipments/connections. | Pairs | 01 | 662.25 |
| 162. | Providing, installation, testing and commissioning of 'Silent type' AIR COOLED Diesel Generator set | | | |

of 25.00 KVA Rating and 3 Phase. The DG Set shall be able to operate at (1600 meters ASL) efficiently without causing any malfunctioning. The DG Set shall comprise of Diesel Engine and Alternator coupled together with heavy duty flexible coupling and mounted on M. S. Base Frame along with all standard accessories, Control Panel, Battery, M. S. Canopy, duly painted and conforming to noise reduction norms as per environmental protection rules 1986 as laid down by Ministry of Environmental (Protection) and Forest, read with GSR-371(E) Dated:17-05-2002 at S. No. 95 for emissions limits and GSR-371(E) Dated:17-05-2002 at S. No. 94 (Paragraph 1 and 3) for noise limits for the DG Set and as per the latest amendments if any. The engine shall conform to IS: 10000/BS: 649/BS: 5514 amended up to date. The DG Set should be rated for continuous duty with overload provision of 10% for the period not exceeding one hour in twelve hours.

A) ALTERNATOR:-

The alternator shall be self-excited, self-regulated for 25KVA rating and shall be brushless, continuous duty. The alternator shall be screen protected drip proof enclosure, and horizontal foot mounted in double bearing construction. The alternator shall conform to IS-4722 / IEC-34/BS2613

- a) Rated Output : 25 KVA (At 1600mtrs ASL)
- b) Rated Speed : 1500 RPM
- c) Efficiency at full load 0.8 P.f. = Not less than 86.00% or as per relevant IS code.
- d) total distortion factor = less than 3%
- e) Voltage : 415 V at 50 Hz
- f) Class of Insulation : H
- g) Enclosure: IP 23.
- h) Governor = Electronic

Standards:

The alternators shall be in accordance with the following standards as are applicable

- a. IS-4722/IS-2613:1970. The performance of rotating electrical machines.
- b. IS-4889/BS 269 rules for method of declaring of efficiency of electrical machines.

B). DIESEL ENGINE (Prime Mover)

The Prime Mover shall be diesel driven to develop requisite BHP as per ISO-8528-part- I at 1500 RPM for the alternator rated as above with ambient temperature ranging from -10C to +45C with 70% humidity.

- a) Speed :1500 RPM
 - c) Cooling System : Water cooled
 - d) Method of Start: Electric Start with a Key.
 - e) Rated BHP : Suitable for 25.00 KVA rating output at 1800mtrs ASL as per ISO-8528-part- I
- The engine shall be fitted with following accessories:-

1) Fuel Tank:

The capacity of the fuel tank shall be so as to last for 12 hours of continuous running on full load. The fuel tank shall be mounted on an angle iron frame of suitable height and fabricated out of M.S.

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| | <p>Sheet of 4 mm Thickness duly painted and fitted with connections for inlet, outlet and return and also to be provided with air vent, drain with valve, level indicator and fuel pipes complete in all respects.</p> <p>2) Battery suitable for above capacity DG set.</p> <p>3) Starting System Providing and Fitting of Terminals, Leads, C/W Charging Dynamo and fitted with 12 Volt Starting System. The system shall be able of starting of DG set with 20-30 Sec even in winter conditions with ambient temp down to -50C</p> <p>4) Engine Instrument Panel: The Engine Instrument Panel shall be fitted with starting switch with keys, Lube Oil Gauge, Temperature & Pressure Gauge, Speedometer, Kilowatt Hour Meter etc and all other accessories as required.</p> <p>5) Safety Control: The D. G. Set shall be provided & fitted with all the safety controls i.e. for Low lube oil Pressure indication switch, High water temperature indication, RPM indication, water temperature indication, battery charging indication etc.</p> <p>C. Standard Control Panel: The Control Panel shall be fabricated out of steel sheet 1.5 mm thick duly pre-treated and aesthetically finished. It shall be totally enclosed, dust, vermin proof with IP-53 degree of protection as per IS 2147-62. The panel shall consist of following instruments:</p> <p>a) 0 - 600 V, AC Voltmeter of class 1.5 accuracy with phase selector switch</p> <p>b) A.C. Ammeter of Class 1.5 accuracy.</p> <p>c) HRC Fuses of required rating.</p> <p>d) One No MCCB of required rating.</p> <p>e) Frequency Meter.</p> <p>f) Power factor meter.</p> <p>g) Pilot Lamps</p> <p>h) Energy Metre</p> <p>i) Push Button Switch for ON-OFF operation.</p> <p>All the above components shall be properly mounted duly wired and shall be of reputed make.</p> <p>D) Canopy: The Canopy of the D. G. Set shall be fabricated out of M. S. Sheet of required gauge so as to withstand the snow load etc, duly painted. The Canopy shall be as per the Norms of the as laid down in the environmental protection rules 1986 of Ministry of Environmental (Protection) and Forest, read with GSR-371(E) Dated:17-05-2002 at S.No 95 for emissions limits and GSR-371(E) Dated:17-05-2002 at S.No 94 (Paragraph 1 and 3) for noise limits for the DG Set and as per the latest amendments if any.</p> <p>The following jobs are also included in the scope of work:</p> <p>The job includes providing of 50 ltrs of HSD for initial testing of DG set at site. The Test Certificate of DG set duly stamped by manufacturer shall be provided at the time of supply of material</p> | Job | 01 | 544992.90 |
| 163. | Providing, Installation, Testing & Commissioning | No. | 01 | 34809.63 |

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| | of complete switchgear unit for protection of D.G Set consisting of 200A MCCB 3- pole , 415 V, 50 KV breaking capacity housed properly in cubical enclosure made up of M.S SWG - 16 sheet steel (outdoor type) duly powder painted with anti-corrosive paint comprising of three compartments for incoming / outgoing circuits and MCCB. The panel should have adequate double locking Arrangement with Cu-. Bus Bar 12x40 mm with Bakelite insulation and LT Arrangement selector switches, phase indicators. The equipment should be installed at appropriate height in a stand consisting of 50 x 50 x 6 mm angle grouted in ground with appropriate cement bottoming as per the IS standard. | | | |
| 164. | Electrification of Pump House by way of P/F of 1.5 mm sq. multi strand PVC wire for lighting points (08Nos.) and 2.5 sq.mm for heating points (04Nos.) to be laid in PVC Conduit Pipes in slab and brick walls of Pump House /as per site requirement. Lighting points should be run on Inverter also. Providing and fitting of Modular type board comprising of 6A Switch =08 No's, 5-Pin 6A socket =04 No's, Indicator= 02 No's , Fan dimmer = 01No, 3-Pin 16A Switch Socket Combine =04No's, 12 watt Slim Round Conceal Ceiling type = 08 No's, Ceiling Fan=01 No , Main Switch board with input and output arrangement etc. | Jobs | 01 | 26490.00 |
| 165. | Supply, installation, testing and commissioning Aesthetically designed higher wattage LED bulb for B22 lamp base, input voltage: AC-220-240Voltage, 50/60Hz, driver type integral, Lumen output 1060lm. | No. | 01 | 162.77 |
| 166. | Supply and fixing of PVC conduit of size 25mm for cable laying | Bundl e | 01 | 2713.28 |
| 167. | Supply, installation of saddle block 235mm for fixing of conduit pipes. | Packs | 01 | 135.63 |
| 168. | Supply and fixing of 8 way gang box. | No. | 01 | 135.63 |
| 169. | Supply and fixing of 6AMP switch. | No. | 01 | 101.73 |
| 170. | Supply, laying and termination of 2.5Sqmm for lighting. | Mtrs. | 01 | 47.47 |
| 171. | 1 inch and 1.5inch for fixing of electric fixtures. | Packs | 01 | 81.38 |
| 172. | Supply and fitting of pendent holders for fixing of LED bulbs. | No. | 01 | 67.81 |
| 173. | Supply and fitting of dimmer for control of ceiling fan. | No. | 01 | 339.10 |
| 174. | Supply and fitting of 6 Amp 3-pin socket | No. | 01 | 339.10 |
| 175. | Supply and fitting of Square Block for fixing of Switch, Sockets. | No. | 01 | 271.28 |
| 176. | Main LT from transformer to panel viastablizer cable size = 3%1/2 core = 35mm | Mtr. | 01 | 474.74 |

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| 177. | Wiring for light point / fan point / exhaust fan point / call bell point with 1.5Sqmm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular plate, suitable GI box and earthing the point with 1.5Sqmm FRLS PVC insulated copper conductor single core cable etc. As required. (Group B) | No. | 01 | 1043.70 |
| 178. | Wiring for circuit / submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required. i. 2x1.5Sqmm + 1x1.5Sqmm earth wire. ii. 2x2.5Sqmm + 1x1.5Sqmm earth wire. | Mtr. Mtr. | 01 01 | 205.74 242.82 |
| 179. | Supply and fixing of following sizes of medium Class PVC Conduit along with accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required (32mm) | Mtr. | 01 | 162.47 |
| 180. | Supply and fixing of following modular switch / socket on the existing modular plate and switch box including connections but excluding modular plate etc. As required. i. 5/6 A Switch ii. 3-Pin 5/6 A Socket Outlet iii. 15/16 A Switch iv. 6-Pin 15/16A Socket Outlet | Mtr. Mtr. Mtr. Mtr. | 01 01 01 01 | 90.95 107.72 137.74 173.95 |
| 181. | Supplying and fixing of two module stepped type electronic fan regulator on the existing plate switch box including connections but excluding modular plate etc. As required. | No. | 01 | 325.82 |
| 182. | Providing and fixing extra conduit down rod of 20mm dia, 2x10cm length, wiring with 2x1.5Sqmm FRLS PVC insulated, copper conductor, single core cable including painting etc. S required (Note: More than 5cm length shall be rounded to the nearest 10cm and 5cm or less shall be ignored). | No. | 01 | 48.56 |
| 183. | Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30cm) with 1.5Sqmm FRLS OVC insulated, copper conductor, single core cable etc. As required. | No. | 01 | 188.08 |
| 184. | Numbering of ceiling fan / exhaust fan/ flurescent fittings s required. | No. | 01 | 50.33 |
| 185. | Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. As required. Upto 450mm Sweep. | No. | 01 | 397.35 |
| 186. | Providing and fixing of following capacity TP&N disconnector fuse switch unit inside the existing panel board with ISI marked HRC fuses including drilling holes in cubicle panel, making | | | |

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| | connections etc. As required. i. 32A TP&N ii. 63A TP&N | No. No. | 01 01 | 1900.21 2776.15 |
| 187. | Supplying and fixing of following way, single pole and neutral, sheet steel, MCB distribution board, 240V on surface / recess, complete with tinned copper bus bar, neutral bar, earth bar, din bar, interconnections, powder painted including earthing etc. As required (But without MCB/MCCB/Isolator) i. 6 Way, Double door | No. | 01 | 1947.89 |
| 188. | Providing and installing of 8W rounded Led Ceiling Light Complete Job | No. | 01 | 220.75 |
| 189. | Providing and installing of 200mm Exhaust Fan (Cut out size : 9.4 x 9.4 Square inches / Watt: 32 / RPM: 1350 / Air Delivery: 520 / Suitable for sitchen, Bathroom and office. | No. | 01 | 1147.90 |
| 190. | Providing and installing electric ceiling fan / 1200mm BEE star rates ceiling fan. | No. | 01 | 1324.50 |
| C. | O&M | | | |
| 191. | AMC for 1 st Year (after completion of DLP) | | | 79470.00 |
| 192. | AMC for 2 nd Year | | | 88300.00 |
| 193. | AMC for 3 rd Year | | | 105960.00 |
| 194. | AMC for 4 th Year | | | 123620.00 |
| 195. | AMC for 5 th Year | | | 132450.00 |

Terms and Conditions:

1. This letter of allotment / acceptance of the contractor will constitute a legal contract and the conditions as laid down in advertised NIT / rate list printed PWD for 25 double agreement form will hold good even before the drawal of agreement between the contractor and department.
2. The BG for Rs.248000/- (Rupees Two Lac and Forty Eight Thousand Only) vide No.106117BG2411009 valid till 24-03-2025 has been retained in this office as security deposit for the contractor.
1. The Contractor has to furnish Additional Performance security in the shape of FDR/bank guarantee pledged to the "Executive Engineer WSMP Division Srinagar", within the period of 14 (Fourteen) days from the award of contract and it should remain valid for a period of 60 (sixty) days beyond the date of completion of all contractual obligations of the contractor, including Defect Liability Period (DLP).
2. The above rates are inclusive of all taxes, royalties etc. And the cost of the work should not exceed beyond allotted cost in any case.
3. The payment shall be made after placement of funds to this division by the competent authority.
4. You are directed to attend the office of under signed within 8 days for drawal of necessary agreement with this department.
5. All other terms and conditions shall remain same as laid down in detailed NIT & PWD form 25 double.

No. 7227-35 Rates checked as per Comparative Statement

Dated: 22-1-25 H.D.


Technical Officer

Executive Engineer,
Water Supply Master Plan Division
Srinagar.

Copy to the:-

01. The Chief Engineer, Kashmir PHE Department, Srinagar for favour of information.
02. Commissioner, Srinagar Municipal Corporation for information.
03. Superintending Engineer, Hyd. Circle, Srinagar / Ganderbal, Head Quarter Srinagar, for information.
04. Private Secretary to Commissioner H&UD J&K for information.
05. Asstt. Executive Engineer, Distt. Sub Division 3rd, for information and necessary action.
06. Asstt. Accounts Officer for information.
07. Head Draftsman for information.
08. File Concerned.