

GOVERNMENT OF JAMMU AND KASHMIR

OFFICE OF THE SUPERINTENDING ENGINEER, HYDRAULIC CIRCLE, SRINAGAR/ GANDERBAL (HQ: SRINAGAR)
Engineering Complex, Rajbagh, Srinagar, Kashmir, 190008, (J&K), Phone/ Fax No.0194-2311831, E-mail:
srinagarse@gmail.com



ALLOTMENT ORDER NO. SE/HYD/SGR (07) of 2024-25 Dated: 22 - 01 - 2025

Classic Construction Company,
Prop: Shabir Mustafa Rafiqui.
S/o : Ghulam Mustafa Rafequi
R/o : Rafiqui Manzil Harwan ,Srinagar.
Regd. No: CCW-J/S&K/AA/59 of 2008 Dated:- 22-05-2008
Class of Contract: A.
Pan No:- AAFFC3888H
Tin No:- 01AAFFC3888H1ZJ
Subject :- Construction of OHT at tail ends of Distribution System with complete Electromechanical

System having 50,000G Capacity OHT at FCI Godown (including Operation and Maintenance) under Amrut 2.0

Reference:-

- Administrative Approval Accorded by this Office order No. : SE/HYD/DB/AMRUT-2.0/23 of 2024-25, Dt. 13-08-2024 issued under No. : SE/HYD/DB/2610-23, Dt. 13-08-2024.
- Technical sanction Accorded by Chief Engineer PHE Department vide Office order No. : CE/PHE/DB/1066 of 01/2025, Dt. 22-01-2025 issued under No. CE/PHE/DB/28654-63, Dt. 22-01-2025.
- Executive Engineer Water Works Division Srinagar's E-NIT No: 45/WWD/Sgr/Civil of 2024-25 Dated 22-10-2024 issued under No. WWD/Sgr/CC/5095-5106, Dt. 22-10-2024.
- Design Calculations/ drawings of subjected work approved by the Chief Engineer Design, Inspection and Quality Control Department Srinagar vide No. DD/BUILD/II/DIQC/S/336, Dt.19-12-2021, vide No. CE/DIQC/I/3641-43, Dt.15-03-2021 and vide No. DD/D&HW/DIQC/S/390, Dt.04-02-2020 circulated vide Chief Engineer PHE Srinagar's No. CE/PHEK/TC/27342-43, Dt.10-01-2025.
- Minutes of Departmental Contract Committee Meeting held in this office chambers of Superintending Engineer Hydraulic Circle Srinagar's No: SE/HYD/DB/4855-59, Dt. 29-11-2024.
- This office Letter Of Intent No: SE/Sgr/DB/5126-28, Dt.10-12-2024.
- Advertised cost of work: - Rs.201.54 lacs (Rupees Two Crore One Lac Fifty Four Thousand Only)
- Allotted cost of work :-Rs. 179,14,914.60 (One Crore Seventy Nine Lac Fourteen Thousand Nine Hundred Fourteen And Sixty Paise only)
- Time of completion: 210 Days
- Major Head of Account= AMRUT 2.0
- Earnest money deposited in shape of Bank Guarantee bearing No.02521PBG2408003 Dated 30-08-2024 for an amount of Rs4,03,080/- (Rupees Four Lac Three Thousand Eighty only) (2% of advertised cost) J&K Bank Branch Air Cargo Srinagar.
- Performance Security in shape of Bank Guarantee bearing No.10601PBG2501006 Dated 20-01-2025 for an amount of Rs4,92,800.00 (Rupees Four Lac Ninety Two Thousand Eight Hundred Only) J&K Bank Branch LCU Polo View Srinagar in addition to already deposited EMD mentioned above at S.No. 11 collectively forming Rs8,95,880/- (Rupees Eight Lac Ninety Five Thousand Eight Hundred Eighty Only) (5% of Allotted Cost) as per e-NIT Terms and conditions figuring at S.No.11.

For and on behalf of Lt. Governor UT of J&K, the contract for the above mentioned work is hereby fixed with you on the following quoted rates by you:

S. No.	Particulars Of Item	Quantity	Unit	Rate (In Rs)	Amount (In Rs)
Civil Part					
01.00	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m in All kinds of soil.	2860.00	Sqm	24.12	68983

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02.00	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunk and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material.				
2.01	Beyond 60 cm girth upto and including 120 cm girth.	10.00	Each	1683.00	16,830.00
2.02	Beyond 120 cm girth upto and including 240 cm girth.	4.00	Each	7795.70	31,183.00
3.00	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 :	588.244	Cum	187.30	110,178.00
4.00	Extra for every additional lift of 1.5 m or part thereof in excavation/banking excavated or stacked material : All kinds of soil :	737.115	Cum	89.75	66,156.00
5.00	Earth work in excavation by <i>manual means</i> 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: All kinds of soil :	10.0	Cum	479.30	4,793.0
6.00	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, including getting out excavated earth and disposal of surplus excavated earth as directed, within a lead of 50 metres: All kinds of soil :	261.6	Cum	256.85	67,192.0
7.00	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 complete				
7.01	600 mm dia piles (M-25)	360.00	Mtr	3095.25	11,14,290.

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8.00	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. Single pile upto 50 tonne safe capacity.					376/0/3
8.01	Initial test (Test Load 2.5 times the safe capacity)	1	Per Test	159533.00	159,533.00	
8.02	Routine test (Test Load 1.5 times the safe capacity)	1	Per Test	175487.00	175,487.00	
9.00	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 (chipping of pile heads)	6.104	Cum	2516.85	15,363.00	
10.00	Providing and laying of dry Stone soling in horizontal on level including all carriages upto site of work	35.392	Cum	937.90	33,194.00	
11.00	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:					
11.01	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	17.908	Cum	5202.90	93,174.00	
11.02	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	11.200	Cum	6591.25	73,822.00	
11.03	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	1.200	Cum	5733.60	6,880.00	
12.00	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.					
12.01	All works upto plinth level.	102.727	Cum	8021.10	8,23,984.00	
12.02	All works above plinth level upto floor V level.	188.91	Cum	9412.05	17,78,030.00	
13.00	Providing M-30 grade concrete instead of M-25 grade	54.373	Cum	98.80	5,372.00	
14.00	Add or deduct for using more or less cement in the items of design mix over and above the specified cement content therein Use of M-30 Instead of M-25	83.734	Qtl	941.00	78,794.00	
15.00	Add or deduct for using more or less cement in the items of design mix over and above the specified cement content therein	135.855	Qtl	941.00	1,27,840.00	
16.00	Extra for R.C.C./B.M.C./R.M.C. work above floor V level for each four floors or part thereof.	75.895	Cum	280.95	21,323.00	

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17.00	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				
17.01	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size)	36.000	Cum	7788.40	280,382.00
18.00	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15°,				
18.01	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size)	25.250	Cum	9821.85	248,002.00
19.00	Centering and shuttering including strutting, propping etc. and removal of form for:				
19.01	Foundations, footings, bases of columns etc. for mass concrete.	69.520	Sqm	286.35	19,907.00
19.02	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	362.054	Sqm	628.95	227,714.00
19.03	Suspended floors, roofs, landings, balconies and access platforms.	76.940	Sqm	718.20	55,258.00
19.04	Lintel, beams, plinth beams, girders, bressumers and cantilevers.	245.839	Sqm	577.55	141,984.00
19.05	Columns, Pillars, Piers, abutments, Posts, Struts.	288.000	Sqm	742.55	213,854.00
19.06	Spiral staircases (including landings)	134.260	Sqm	676.25	90,793.00
19.07	Arches, domes, vaults upto 6 m span	39.438	Sqm	2281.20	89,966.00
19.08	Extra for arches, domes, vaults exceeding 6 m span	91.060	Sqm	1118.85	101,882.00
20.00	Extra for shuttering in circular work (20% of respective centering and Shuttering items) (Rate shown as 0.20 means 20% of the Respective item)				
20.01	Bottom Ring Beam	19.217		57.27	1,101.00
20.02	Walls	362.054		125.79	45,543.00
20.03	Beams	130.538		115.51	15,078.00
20.04	Arches	39.438		456.24	17,993.00
20.05	Extra for arches, domes, vaults exceeding 6 m span	91.060		223.77	20,376.00
20.06	Edges of slabs and breaks in floors and walls (Under 20 cm wide)	15.000	Rm	262.20	3,933.00
21.00	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). Suspended floors, roofs, landings, beams and balconies (plan area to be measured)	128.81	Sqm	293.90	37,857.00
22.00	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level				

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22.01	Thermo-Mechanically Treated bars of grade Fe-500D or more.	51029.10	Kg's	123.20	62,86,705.00
23.00	Structural steel work in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of steel primer all complete. (Welded)	2000.00	Kg's	138.20	276,400.00
24.00	Providing & fixing 1mm thick MS sheet door with frame of 40x40x6mm angle iron & 3mm MS gusset plates at the junctions & corners, all necessary fittings complete, including applying a priming coat of approved steel primer. Using MS angles 40x40x6mm for diagonal braces				
25.00	Using M.S. angles 40x40x6mm for diagonal braces	2.520	Sqm	5493.90	13,845.00
26.00	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.	235.44	Cum	218.40	51,420.00
27.00	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI- 212-3R-2010 i.e. by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of selfhealing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage.				
27.01	For vertical surface two coats @ 0.70 kg per sqm	202.530	Sqm	407.75	82,582.0
27.02	For horizontal surface one coat @ 1.10 kg per sqm.	77.895	Sqm	310.05	24,151.0
28.00	Providing & applying of swellable type water stop tape, 19mm x 25mm thick in linear meter (expansive nature) for construction joints treatment of RCC structure such as raft slab, retaining walls, water storage tank & at the junctions of raft slab with the retaining walls etc. After cleaning the surface, one coat of required primer for swellable water stop tape shall be applied throughout the length of the joint @ 3.78 litre per 240 running meter. Over the primed surface swellable type water stop tape shall be placed. The work shall be carried out all complete as per specification and the direction of the Engineer-in-	100.00	Mtr	554.10	55,410

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	Charge. The product performance shall carry guarantee for 10 years against any leakage.				
29.00	Cement Plaster with a Floating Coat of neat Cement: 12 mm Cement plaster finished with a floating coat of neat cement of mix: 1 : 4 (1 cement : 4 fine sand)	378.822	Sqm	353.10	133,762.00
30.00	Extra for plastering on circular work not exceeding 6m in radius: In one coat				
30.01	In one coat	78.877	Sqm	37.80	2,982.00
30.02	In Two coat	299.945	Sqm	57.60	17,277.00
31.00	Finishing walls with acrylic smooth exterior paint of required shade on New work (Two or more coats applied @ 1.67 liter/10sqm over and including priming coat of exterior primer applied @ 2.20kg/10sqm) Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	981.957	Sqm	185.20	181,858.00
32.00	Painting with PHE (Jal shakti) Logo at the Top Tank Level along with salient features of the OHT. The height of logo should not be less than 2.5 mtr in height and should be visible properly from a distance and the salient features should be writing in 3x3 sqm. Complete job.	1.000	Job	8000.00	8,000.00
33.00	Providing & fixing of MS fittings viz bends of suitable degree, tees, collars etc to be fabricated from MS plate in required thickness as per the requirement of site including cost of welding, lead caulking . The work should be leakproof and should be painted with anti corrosive primer and approved metal paint One Complete Job.	550.000	Kg's	250.00	137,500.00
34.00	Providing & fixing stainless steel (Grade 304) railing made of Hollow tubes channels, plates etc including welding, grinding, buffing, polishing & making curvature (wherever required) & fitting the same with necessary stainless steel nuts & bolts complete including fixing the railing with necessary accessories and stainless steel dash fasteners, stainless steel bolts etc. of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	400.000	Kg's	753.75	301,500.00
35.00	Supply and installation of satin finish stainless steel 304 stainless steel posts having 100mm dia tube, erected with chemical grout to be fixed on the top of slab/skirting (spigot fixed) at corners complete, as manufactured by D line or approved equivalent & shall be fixed above the finished level complete as per architectural drawings.	2.000	No.	4000.00	8,000.00

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36.00	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven storey height made with 40 mm dia M.S. tube 1.5 m centre to centre horizontal and vertical tubes joining with cup and lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffoldings for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connection with the building etc. wherever required for inspection of work at required locations with essential safety features for the workmen etc complete as per directions and approval of Engineer-in-charge. The elevational area of the scaffolding shall be measured for payment purpose. The payment will be made once irrespective of duration of scaffolding. NOTE:- To be used for maintenance work judicially necessary deduction for scaffolding in the existing item to be done	533.8	Sqm	265.3	141,617.00
37.00	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. (E.R.W. tubes)	250.00	Kg	154.70	38,675.00
38.00	Providing of 10/12mm thick MS flanges to pipe ends by way of welding of flanges to pipes. The item includes all types of labour and material and carriage involved. The item also includes cost for providing of nuts and bolts and rubber washers. R.I cloth etc complete job.				
38.01	150 mm Dia	12	No.	1400.00	16,800.00
38.02	100 mm Dia	7	No.	1100.00	7,700.00
39.00	Providing/fixing of Sluice Valves of heavy duty like Kirloskar/VAG/Talis or similar make subject to approval of Engineer In Charge including all types of necessary fittings, carriage etc complete job.				
39.01	150 mm Dia Sluice Valve	3.000	No.	30000.00	90,000.00
39.02	100 mm Dia Sluice Valve	1.000	No.	20000.00	20,000.00
40.00	Supply, installation, testing and commissioning of Advanced Maintenance Free environment friendly	1.000	No.	15800.00	15,800.00
41.00	Providing and Fixing 25 mm x 5 mm Copper Strip in 40 mm dia. G.I Pipe FRL Earth Electrode including connection with Brass nut, bolt, spring, washer, excavation and refilling etc. as required.	25.000	Rm	1224.00	30,600.00
42.00	Supply, installation, testing and commissioning of lightning conductor made of 25 mm dia 300 mm long copper tube having single prong at top with base plate.	1.000	No.	1500.00	1,500.00
43.00	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	50.000	Sqm	562.15	28,108.00

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	of steps etc. complete. (50mm thick with 20 mm nominal size stone aggregate)				
44.00	Brick work with common burnt clay (non-modular) bricks of class designation 7.5 in foundation and plinth including curing in : Cement mortar 1:6 (1 cement : 6 coarse sand)	22.240	Cum	7571.55	168,391.00
45.00	Extra for brick work with common burnt clay bricks/cement concrete bricks in superstructure above plinth level upto floor five level.	22.240	Cum	1455.65	32,374.00
46.00	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): (Second class kail wood)	0.270	Cum	101081.85	27,292.00
47.00	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. Second kail wood 35 mm (35mm thick)	4.200	Sqm	2853.95	11,987.00
48.00	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. Second Class Kail wood	4.200	Sqm	2305.70	9,684.00
49.00	Extra for using stainless steel grade 304 wire gauge with wire of dia. 0.5 mm instead of Galvanized M.S. Wire gauge with wire of dia. 0.63 mm for doors, windows and clerestory windows with necessary screws: (shutter area to be measured)	4.600	Sqm	142.35	655.00
50.00	Providing and fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with : (5.0mm thick glass panes)	4.600	Sqm	1210.00	5,566.00
51.00	15mm Cement plaster on the rough side of single or half brick wall of mix: 1 : 4 (1 cement : 4 fine sand)	175.840	sqm	327.85	57,649.00
52.00	Providing and laying S&S Centrifugally Cast (Spun)/ Ductile Iron Pipes conforming to IS : 8329 and including all carriages upto site of work. 150 mm dia Ductile Iron Class K - 7 Pipes	700	Mtr	3081.00	2,156,700.00
53.00	Supplying pig lead at site of work.	1.5	Qtl	26758.75	40,138.00
54.00	Providing and fixing G.I. pipes complete with G.I. fittings excluding trenching and refilling etc. (external work) and all carriages upto site of work				
54.01	100 mm dia. nominal bore (Light)	30	Mtr	1255.15	37,655.00
54.02	150 mm dia. nominal bore (Medium)	54	Mtr	2256.90	121,873.00
55.00	Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc. if required will be paid separately). (80mm dia.)	3.000	No.	6242.90	18,729.00

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56.00	Providing and fixing ISI marked Aluminium 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 :				
56.01	125x75x4 mm	3.000	No.	132.80	398.0
56.02	100x63x4 mm	6.000	No.	106.85	641.0
56.03	75x63x3.2 mm	26.000	No.	78.20	2,033.0
57.00	Providing and fixing Aluminium 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 :				
57.01	200x10 mm	8.000	No.	95.35	763.0
57.02	150x10 mm	18.000	No.	83.80	1,508.0
58.00	Providing and fixing Aluminium round shape handle of outer dia 100mm with SS screws etc. Complete as per direction of Engineer-in-charge				
59.00	Powder coated minimum thickness 50 micron Aluminium	10.000	No.	95.85	959.0
60.00	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete:				
60.01	Budloo/ Fir wood (50x12mm)	61.200	Mtr	143.70	8,794.0
61.00	Carriage of material by mechanical transport				
61.01	Stone aggregate 40 mm nominal size and above Avg lead 35 Km	17.908	Cum	625.64	11,204.0
61.02	Sand, stone aggregate below 40 mm nominal size Avg lead 35 Km	365.287	Cum	575.54	210,237.0
61.03	Bricks	10452.800	No.	1.53	15,993.0
61.04	Cement, and Steel Avg lead 10 Km	201.029	MT	248.03	32,861.0

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srinagarse@gmail.com



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62.00	<p>Supply, Installation, Testing & Commissioning of Open Well Pumping Units as per IS 14220.</p> <p>PUMP:-</p> <ul style="list-style-type: none"> • Type of pump : Open well Submersible Pump (Horizontal) • Discharge: 8000 GPH • Head: 40M • Quality of Water to be handled : Filter water <p>MATERIAL OF CONSTRUCTION:</p> <ul style="list-style-type: none"> • Pump Casing : Cast Iron • Impeller : SS • Pump Shaft : Stainless Steel 410 • Motor Body : Cast Iron/SS • Sealing : mechanical seal <p>ü The bowl plate shall be provided with name plate giving complete specifications</p> <p>ü MOTOR:-</p> <ul style="list-style-type: none"> ü Rating:suitable for above specification • Method of starting: Star - Delta/DOL (as specified). • Frequency : 50Hz + 3% • Voltage : 415 + 6 %, - 15% 3 phase • Class of insulation: Suitable for above rating. • Sealing : Dual mech. seal. Provided with thermal and overload protection <p>The motor shall be made of corrosion resisting materials to resist corrosion under normal conditions and the motor shall have a name plate giving complete specifications.</p> <p>Note: Test certificate having the Serial No. of the Pumping Unit along with the performance curve in duplicate from the Manufacturer must be produced on delivery of the item</p> <p>Make:Kilroskar/KSBTO BE CARRIED OUT AT STAGE-IIInd</p>	2.000	Job	75000.00	150,000.00
63.00	<p>Providing and fitting of G.I flanged delivery line from the tube well upto the sump and finally sump to the foot of OHT. The job includes fabrication of the coloumn pipes of length not exceeding 10 feet. The Pipe shall be hot dip Galvanized, class C conforming to IS 1239. The job also includes providing and fitting of M.S Flanges conforming to BIS 6392/1997 Table 5 (Rating PN16). The flanges shall be double weided 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/Tee to be fabricated out of Class C GI pipes flanged on both ends a to make it leak proof as per the site requirement</p> <p>Flanges (as per IS 6392/1997 Table:5)</p> <p>Thickness shall conform to IS 6392 Part 1st Table-5.</p> <p>The flange welding shall be carried out in double layers using reputed make electrodes to form strong welding joint.</p> <p>Welding Electrode:</p> <p>DC Arc Welding using welding electrode having diameter not less than 4mm.</p> <p>Nuts and Bolts of required size</p>	100.000	Mtr	1550.00	155,000.00

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	<p>Rubber Insertion Gaskets: Rubber Insertion Gaskets to be used between flanged joints. The main technical specifications of the pipe are given here under: ND= 80 mm Class: C (Heavy)</p>					3269 K (3)
64.00	<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 (Table 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 requ. ired for the job. TO BE CARRIED OUT AT STAGE-IIInd. 80 mm PN 1.6 (Make: VAG/Sigmaflow/Talis)</p>	3.000	Job	15497.00	46,491.0	
65.00	<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. It shall have electrostatic epoxy coating (approved for drinking water) both inside and outside of the valve. 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 (Table 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. TO BE CARRIED OUT AT STAGE-Ist STAGE-IIInd. DN 80 PN 1.6 (Make: VAG/Sigmaflow/Talis)</p>	3.000	Job	17489.00	52,467.	
66.00	<p>Supply , installation , commissioning and creation of pole mounted, outdoor type Electric Sub Station as per the technical specifications given here under - Specifications conforming to IS: 1180 (Part 1) 2014 with latest amendments.</p>	1.000	Job	171963.00	171,963.	



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Type: HT/LT Transformer
Type of cooling: ONAN.
Operating conditions:
Input =11000 volts
Output =433 volts AC supply in 3- phase.
Terminals:
Input=3 No. HT bush rods with insulators, washer, nuts etc.
Output=4 No. LT 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 gel crystals, conservator with oil level indicator, explosion vet 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. 63 KVA

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67.00 Fabrication, Providing and fitting of Modular motor control panel of appropriate size fabricated out of 14 SWG sheet having required openings/vents and protection Class : IP-55 & fitted with accessories as under:

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 100 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.

b) Main Circuit Breaker (Incomer MCCB):
Qty. = 01
No. of poles = 4 Pole
Current Rating = DN2-250N, 160-200 A.
Rated operational voltage = 415 V + 15 %
Rated frequency = 50+/-3%Hz
Ambient temperature = 40C°
Ultimate S.C Breaking Cap.
at (415V AC, 50 Hz) = 50 KA
Type of release = Thermal-Magnetic
Overload protection = 0.8 - 1×In adjustable
Short-circuit protection = 6-10×In adjustable.

c) Change over Switch:
Qty. = 01 No.
Rating = 200 A
Type = Front operated, on load, 4 pole, 400 +15%V, 50 + 3%Hz.

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d) Motor Back-up Protection MCCB:
Qty = 03 No
No. of poles = 3P
Current Rating = DN0-125D, 100-125 A
Rated operational voltage = 415 V +15 %
Rated frequency = 50 + 3% Hz
Ambient temperature = 40C°
Ultimate S.C Breaking Cap.
at (415V AC, 50 Hz) = 36 KA
e) Submersible starters = Fully automatic star-
delta
Type: MU-G20
Power Specs = 3 Φ, 415 + 15% V, 50 + 3 % Hz.
Relay range = 13-21 A
Coil Voltage = 380 v
Protection = single phasing, phase
Reversal, phase unbalance (55 ± 5 V),
Qty. = 3 No's
f) Auxiliary MCCB for Heating/Lighting:
Circuit Breaker = MCCB (Outgoing)
Qty. = 1 No.
No. of poles = 4P
Current Rating = 63 A
Rated operational voltage = 415 V + 15 %
Ultimate S.C Breaking Cap.
at (415V AC, 50 Hz) = As per requirement

g) Motor Protection Relay:
MM10 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, over current, Prolong starting, Locked Rotor,
Under voltage, over voltage & Earth fault.
h) M-power module for mobile starter for submersible
motor 1P/3P 3 wire IVRS Languages – English ,
Hindi,
Suitable Region- North India
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 for each starter). 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.

1.000	job	210000.00	210,000.00
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68.00	<p>Providing, fitting, testing and commissioning of 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: 250-400 volts.(3 phase) Output voltage: 400 \pm 10% volts. Frequency: 50 \pm 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 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. (ONE JOB EACH TO BE CARRIED OUT AT STAGE-Ist & STAGE-IIInd & ONE TO BE KEPT AS STANDBY) (25 KVA)</p>	2.000	Job	58000.00	116,000.00
69.00	<p>Providing and fitting G.I Channel /Angle/ Flat of sizes including clamps for the transformer bed and for the tapping point of suitable size or as per the direction of site engineer.</p>	350.000	Kg's	123.00	43,050.00
70.00	<p>Supply, Installation, Testing and commissioning of 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 post 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</p>	2.000	Job	12000.00	24,000.00

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	to IS 1818 1961, 06 No. of insulators, rated voltage 11KV 200A complete as per IS specs.				
71.00	Supply, Installation, Testing and commissioning of 11KV polymer fuses Set Horn Gap 3-phase 200 A suitable for vertical installation	1.000	Job	4983.00	4,983.00
72.00	Supply, Installation, Testing and commissioning of Gapless Surge arrester station class, 10KA, 9KV, LA With polymer housing, Station Type.	1.000	Set	7754.00	7,754.00
73.00	Supply and fitting of 11 KV polymeric composite pin insulator 12 KV, 5KN, Lighting impulse 75KV Positive, and 80 KV Negative, creep distance 320 mm	6.000	Job	347.00	2,082.00
74.00	Supply, installation, erection of 9 mtrs long ST- 410 (sp-33). The job further includes drilling of holes for installation of various accessories wherever required.	8.000	No.	20686.00	165,488.00
75.00	P/F of Galvanized nuts and bolts of various sizes as per site requirement.	40.000	Kg's	142.00	5,680.00
76.00	P/F Danger Plate with clamps	8.000	No	150.00	1,200.00
77.00	Providing and fixing G.I Barbed wire for anti climbing	30.000	Kg's	136.00	4,080.00
78.00	Providing and fixing of anti climbing devices with clamps	8.000	No.	409.00	3,272.00
79.00	Providing and fitting of Galvanized stay set with 50 X 8 mm Stay Clamp, Guy insulator (2no.), Anchor plate (200X200X6mm), nuts and bolts, 2 No- turn buckle, 1.8 m long, 16 mm diameter solid G.I stay rod & 7/3.15 mm dia. G.I stranded wire complete.	1.000	Set	4922.00	4,922.00
80.00	Painting of poles Red oxide	20.000	Ltr.	306.00	6,120.00
81.00	Painting of poles Aluminum paint	20.000	Ltr.	510.00	10,200.00
82.00	Supply, Installation and Testing of 35 Sq mm XLPE Aluminum H.T cable (ABC type) of 11 KV grade with following specs. Size (cross sectional area in sq mm) = 3x35 with reinforced wire Phases: Red, Yellow, Blue	80.000	Mtr	818.00	65,440.00
83.00	Providing and fitting of Anchoring clamps comprising of clamp body, plastic wedge, steel bill bracket, straps and buckles or nuts and bolts required for holding of 3-Core, 35 Sq. mm H.T AB Cable.	8.000	Job	457.00	3,656.00
84.00	P/F of 11 KV cable termination kit for connecting 35 Sq mm XLPE cable (ABC type) with the existing HT line near tapping point and 100 KVA HT transformer.	3.000	Job	8994.00	26,982.00
85.00	Providing and fitting of GI earthing rod for earthing of HT poles as per REC standard.	8.000	Job	659.00	5,272.00
86.00	Providing and fitting of prodigy LT meter of following specification complete with all fixtures required for fitting at site for above mentioned scheme. Type: E3L 100, 3-phase, 4-wire Measurements offered: KWh, KVARh, KVAh, KVA Voltage: 240 V (415 V) 50Hz, Lb:40 A, I _{max} = 200A Battery: Lithium (SECURE)	1.000	Job	25000.00	25,000.00

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87.00	P/I of earthing station for substation, LT panel, DG set 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	5.000	No	10462.00	52,310.00
88.00	Supply, installation of 6 kg CO2 type fire extinguisher manufactured as per IS: 15683 of 2006 with IS mark and comply with DGMS (Approval). The co2 extinguisher should be suitable for class B & C fire and also for fire involving electrical equipment. The cylinder used for fire extinguisher shall be approved by petroleum and explosive safety organization (PESO) as per gas cylinder rules 2004 and as per IS: 7285 of 2004. The body should be made of seamless steel (manganese) confirming to IS: 7285 with IS mark and should be provided with squeeze grip nozzle and should be filled with co2 confirming to IS: 15222 of 2002 with certificate. The extinguisher shall be provided with manufactures test certificate and hydraulic test certificate by BIS from PESO.	2.000	Job	6447.00	12,894.00
89.00	Providing, installation, testing and commissioning of area lighting 120 Watt LED (Street Light Type) on top of 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 up to IP-68. The LED is properly fitted as per the site conditions and as per the directions of site engineer.(Arms required for fitting of LED is included in the job)	6.000	Job	9486.00	56,916.0
90.00	Providing, Installation and testing of 2KVA 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 incharge.	1.000	Job	8154.00	8,154.0
91.00	Providing and Fitting of 3.5 core XLPE Armoured Aluminium Cable conforming to IS: 7089 part 1st as service line from the HT transformer to control panel including necessary thimbling, crimping, taping etc. NOTE:- The cable terminal ends for connection to switchgear at vario us requisite points shall be Al. Thimbles of dowel's make and of appropriate size and connected by hydraulic crimp tool only. 50 sqmm , 3.5core	50.000	Mtr	497.00	24,850.

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92.00	Providing and fitting of 3-Core flat submersible copper cable conforming to IS: 694 (Part 1st) - 1964 & IS: 694 (Part 2nd) - 1964 for Submersible Pumping Unit and other electrical Equipments. The cable connections terminal shall be fitted with copper thimbles of required size. 10 sqmm	90.000	Mtr	610.00	54,900.00
93.00	Providing and installation of Junction Box with DP 32 A MCB to serve as Main switch for LED Lighting. The job includes making of electric connection to the circuit.	2.000	Job	2227.00	4,454.00
94.00	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 6mm ² Cu 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.	1.000	Job	34053.00	34,053.00
95.00	Providing of good quality bedding for night stay/Shift consisting of: 1) Mattress with warm cover size 6'x3' (6Kg)- 02 No's 2) Quilt with warm cover size 5'x8' (6Kg)- 02 No's 3) Pillows with covers - 02 No's 4) 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	1.000	Job	39619.00	39,619.00
96.00	Providing and fitting of 01 No. LED (scroll type) sign board fabricated out of stainless steel and metal showing the names of water supply scheme and the Department. Size: 6'x1'6"	9.000	Sft	250.00	2,250.00
97.00	Providing/fitting of manual type chain pulley block having following features: Make = INDEF/Pull lift Capacity = 2MT No. Of chain falls = 4 Min. Height of lift = 6 M Gears:- The hoist shall have precision cut super and helical gears made of alloy steel mounted on bearings and housed in a dust proof gear box. The lubrication of gears be of high viscosity and temperature for longer life of gears. Load Chain:- The load chain be made of high tensile alloy steel having wear resistance and greatest mobility. The chain should be accurately collaborated, tested and have adequate in built factor of safety for safer operation. Load chain wheel:- Specially designed, perfectly machined wheel providing correct grip of load chain made of malleable cast iron makes the hoist most safe and reliable against any failure.	1.000	Job	28000.00	28,000.00

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98	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 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. IS: 277, 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.	154.000	sqm	706.50	1,08,801.00
99	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. 0.50 mm thick with zinc coating not less than 275 gram/m2	28.000	RM	690.85	19,344.00

Total (A)

19,205,027.00

Operation & Maintenance

100.00	For 1st Year	1.00	Year	140000.00	1,40,000.00
101.00	For 2nd Year	1.00	Year	160000.00	1,60,000.00
102.00	For 3rd Year	1.00	Year	180000.00	1,80,000.00
103.00	For 4th Year	1.00	Year	200000.00	2,00,000.00
104.00	For 5th Year	1.00	Year	269000.00	2,69,000.00

Total (b)

9,49,000.00

Grand Total (A+B)

201,54,027.00

Allotted Rate/Amount quoted by the tendered @ 11.11% below (Eleven decimal One One Percent Below)

22,39,112.40

Grand Total (in Rs.) Allotted Amount/ Rate

179,14,914.60

Rates & Quantities Checked

One Crore Seventy Nine Lac Fourteen Thousand Nine Hundred Fourteen And Sixty Paise only

Draftsman

Technical Officer

Superintending Engineer

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TERMS AND CONDITIONS:

01. Time of Completion: Time shall be essence of the contract, the work under this contract shall be completed in all respects within a period of 07 calendar months including rainy and snowy days reckoned from 7 day after the issuance of formal allotment letter by the department. In the event of the contractors falling/declining/neglecting or delaying, the work shall be got executed through any other agency at the risk and cost of the original contractor.
02. Advance Payment: No mobilization advance or advance payment shall be made in favour of the contractor.
03. Agreement: The contractor shall draw an agreement with the Department within seven days from the date of issue of this allotment order. Contractor's failure to execute such an agreement in time shall be dealt as per rules laid down in the NIT/ Tender Document and forfeiture of the EMD.
04. Defect liability period : if during the period of Twelve months after the successful completion of trail run of 03 Months or whichever is later (which shall be considered as the defect liability period) the work or in the part thereof which may have been caused by the bad workmanship, use of inferior material or otherwise or if in the opinion of the Chief Engineer or Superintending Engineer In charge any repairs are required to be made in any work done, the contractor shall be liable to remove the defects or make repairs at his cost and expenses within a period of ten days from the issue of the notice by the Engineer in charge, in the event of the failure on the part of contractor to remove these defects or make the repair within a stipulated period, the engineer in charge may get the defects removed or repairs made through other agency and cost thereof shall be recoverable from the security deposit or any amount due to the contractor. The defects or repairs shall be recoverable from the amount due to the contractor the defects or repairs shall be deemed to have been removed/made when the Chief Engineer/Engineer in charge certifies that the defects have been removed or the repairs have made to his entire satisfaction.
05. Disposing excavated material: All excavated material shall remain the property of the Department. The Contractor shall ensure that no excavated material which is suitable for and is required for re-use in the Works is transported unless so ordered by the Engineer-in-Charge.
06. General
 - a) The method of measurement/specification of completed work for payment etc. shall be in accordance with the "Book of Specifications" published by the CPWD that forms basis for SSR in vogue
 - b) All other terms and conditions shall remain same as laid down in the Executive Engineer, Jal Shakti (PHE) Water Works Division, Srinagar's e-NIT No: E-NIT No: 45/WWD/Sgr/Civil of 2024-25 Dated 22-10-2024 issued under No. WWD/Sgr/CC/5095-5106, Dt. 22-10-2024.

Draftsman
[Signature]

[Signature]
Technical Officer

[Signature]
Superintending Engineer,
Hydraulic Circle, Srinagar/ Ganderbal
Hq. Srinagar.

No: SE/HYD/SGR/6143 - 45
Dated: 22-01-2025.

Copy to the:-

1. Chief Engineer Jal Shakti (PHE) Department Srinagar for information.
2. Executive Engineer Water Works Division Srinagar for information & necessary action. The work be executed strictly as per the approved design, drawings and specifications besides taking into consideration all the measures for abiding strictly to quality control practices as per relevant ISI code, appropriate sections of tender documents and standard practices of engineering.
3. Office File.