



Tel : 0495 - 2371046

KERALA WATER AUTHORITY

Office of the Superintending Engineer,
P.H. Circle, Kozhikode,
Malaparamba P.O,
Pin – 673 009.

No. 1772/D6/2022/PHC-KKD

Dated: 20.09.2022

From

Superintending Engineer

To

Sri.Mr. K. Ramesan, Kedaram,
KSHB Colony, Malaparamba
Kozhikode - 673 009.

Sir,

Sub:- Jal Jeevan Mission- Phase III - Providing FHTC in Chakkittapara Panchayath
-Package I- Providing FHTC by Augmentation of existing water supply
scheme - Work Order Issuing -Reg-

Ref:- 1. AS Order Number:- GO(Rt) No.134/2022/ WRD,Dated:23-02-2022
Rs.2718Lahks

2. TS Order Number :- 8190/2022-2023 ,dtd:-24/06/2022, of CE,NR,KKD for
Rs. 702 Lakhs. (2022/18793).

3. e tender no:- SE/PHC/KKD/08/2022-23,dtd:- 25/06/2022.

4. Tender Approval Proceedings No:-KWA/CE/NR/D3-18793/2022(JJM),
dtd:-18/09/2022 of CE,NR,KKD.

WORK ORDER

With reference to the above, you are hereby informed that your tender for the above work is accepted at an amount of **₹ 5,64,54,177.01/- (Rupees Five Crore Sixty Four Lakh Fifty Four Thousand One Hundred and Seventy Seven and One Paise Only)** which is 4.57% below the tendered PAC of Rs.5,91,60,453/-

You are directed to attend this office on or before **06/10/2022** with required Kerala Stamp paper worth **Rs.56,500/-** (0.1% of accepted PAC) to execute agreement and to start the work after getting necessary instructions from the Executive Engineer, Project Division, Kozhikode.

1. Before Executing the agreement you should provide Performance guarantee of **Rs.16,94,000/- (Rupees Sixteen Lakh Ninety Four Thousand Only)** Atleast fifty percent (50%) of this shall be in the form of Treasury Fixed Deposit and the balance in the form of Bank Guarantee and produce the pass book duly pledged in favour Superintending Engineer, PH Circle, Kozhikode for fulfillment of contract. It is informed that no interest shall be payable by KWA upon the security deposit or amount payable to the contractor under the contract. The EMD furnished along with tender will be released on receipt of the Performance guarantee and written request. You are not allowed to convert the EMD submitted by you as Performance Guarantee.
2. The Contractor shall also provide an **Additional Performance guarantee for Rs. 15,80,200/- (Rupees Fifteen Lakh Eighty Thousand Two Hundred Only)** before



execution of agreement. Fifty percent (50%) of this shall be in the form of Treasury Fixed Deposit and rest in the form of Bank Guarantee issued from any Nationalized Bank/Scheduled Bank/Kerala Financial Corporation or any other forms prescribed in the Kerala PWD Manual.

3. Any failure in this direction will be liable to result in the forfeiture of your offer, Permanent Earnest Money and the cancellation of the proposed contract and the contractor shall be liable to pay the Authority the entire loss that may be caused to Authority by the re-tender or the rearrangement of the work or otherwise consequent on the contractor's failure to execute the agreement or execute the work as provided for in the clause of the Notice Inviting Tender and all such loss shall be recovered from the contractor under the provision of the Revenue Recovery Act or otherwise.
4. It must be understood that on no account the rates once fixed will be increased. Payment will be made as per the availability of funds for the scheme.
5. The work should be completed in all respects within **6 Months** from the date of work order. The commissioned scheme shall be maintained for a further period of 24 months from the date of commissioning of the work.
6. All the terms and conditions of the NIT and Special conditions shall be binding on the Contract.
7. The contractor shall take over charge of the site within 10 days after executing agreement and commence the work.
8. The Contractor should complete the work in all respect as per scope of work within the accepted PAC of **Rs. 5,64,54,177.01/-**
9. The contractor shall engage a licensed plumber to lay service lines in FHTCs as per the judgement in WPC18399/2020 dated 08/09/2020 of the High Court of Kerala.
10. Payment will be made to the contractor for the total value of the work plus applicable GST.
11. 10% of Accepted PAC is to be secured by beneficiaries. This can be in the form of cash, kind, labour or materials. Hence if beneficiaries contribution is in any form other than cash such items will be accounted accordingly. In such case measurements will be made separately and the contractor will be entitled for payments of such measurements.
12. In NIT Vol-1 "The additional special conditions (regarding pipe supply) mentioned are not relevant to this work. The trenching width given in NIT Vol-1 & NIT Vol-2 are miss matching, these are to be ignored. The quantities given in schedule and approved estimate have precedence.
13. Clause 5 of Government order No. G.O(P)No.54/2019/Fin dated:-04/05/2019 will be applicable to this work.
14. In case you desire to file any appeal on this order, you may approach the following higher authorities in succession. (1) Chief Engineer (Northern Region), KWA, Kozhikode, (P.O). Malapparamba. 673019 (2) Managing Director, KWA, Jalabhavan, (P.O) Vellyampalam, Thiruvananthapuram.

Yours faithfully,
Dr.Gireesan P
Superintending Engineer

Copy To

- 1) Chief Engineer (NR), Kerala Water Authority, Kozhikode for favour of information
- 2) Executive Engineer, Project Division, KWA, Kozhikode for necessary action. The date of handing over the site to the contractor shall be reported to this office. The cost for geo tagging (@ Rs.20), Statutory fees for water connection(@Rs.578/-) and Additional Connection Fee (@ Rs.500/-)should be recorded in the measurement book .
- 3) RAO.

Encl:



1. Accepted Schedule.
2. Additional Performance Guarantee Calculation Sheet.



KERALA WATER AUTHORITY, P.H. CIRCLE, KOZHIKODE**Accepted Schedule****Jal Jeevan Mission- Phase III - Providing FHTC in Chakkittapara Panchayath -Package I- Providing FHTC by Augmentation of existing water supply scheme****e-Tender No : SE/PHC/KKD/08/2022-23**

Name of Contractor:- Sri. K.Rameshan	Tendered PAC: Rs.	59160453
	Accepted PAC: Rs.	56454177
	Time of Completion	6 Months

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	TOTAL AMOUNT With all Taxes (Except GST) in	TOTAL AMOUNT In Words
1	APPENDIX A -PROVIDING 460 nos FHTC BY EXTENDING EXISTING DISTRIBUTION NET WORK					
1.001	Supply of PE Pipe, PE100, PN10, 75mm dia, conforming to IS 4984/2016.	2000.000	metre	195.00	390000.00	Rupees Three Lakh Ninety Thousand Only
1.002	Supply of PE Pipe, PE100, PN10, 90mm dia, conforming to IS 4984/2016.	20000.000	metre	283.00	5660000.00	Rupees Fifty Six Lakh Sixty Thousand Only
1.003	Supply of PE Pipe, PE100, PN10, 110mm dia, conforming to IS 4984/2016.	2000.000	metre	412.00	824000.00	Rupees Eight Lakh Twenty Four Thousand Only
1.004	Supply of PE Pipe, PE100, PN10, 140mm dia, conforming to IS 4984/2016.	1600.000	metre	687.00	1099200.00	Rupees Ten Lakh Ninety Nine Thousand Two Hundred Only
1.005	Supply of PE Pipe, PE100, PN10, 160mm dia, conforming to IS 4984/2016.	4500.000	metre	899.00	4045500.00	Rupees Forty Lakh Forty Five Thousand Five Hundred Only
1.006	Add 5% for HDPE Specials	11257045.000	L.S	0.05	562852.25	Rupees Five Lakh Sixty Two Thousand Eight Hundred Fifty Two and Twenty Five Paise Only
1.007	Providing and laying Double Flanged (Screwed / Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K - 9 conforming to IS: 8329 :	0.500	metre	2587.00	1293.50	Rupees One Thousand Two Hundred Ninety Three and Fifty Paise Only
1.008	Supply of CI Air Valve, Conforming to IS 14848 - 2000, Single Orifice, Small Orifice Type S1, Size 25mm.	10.000	No	5355.00	53550.00	Rupees Fifty Three Thousand Five Hundred Fifty Only
1.009	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 80mm.	10.000	No	6293.00	62930.00	Rupees Sixty Two Thousand Nine Hundred Thirty Only
1.01	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 150mm.	1.000	No	12727.00	12727.00	Rupees Twelve Thousand Seven Hundred Twenty Seven Only
1.011	Supply of 80 mm GI pipe (medium)	2000.000	metre	856.00	1712000.00	Rupees Seventeen Lakh Twelve Thousand Only
1.012	Supply of G I pipes 65 mm dia	500.000	metre	670.00	335000.00	Rupees Three Lakh Thirty Five Thousand Only



1.013	Supply of 100 mm dia GI medium class pipe	500.000	metre	1278.00	639000.00	Rupees Six Lakh Thirty Nine Thousand Only
1.014	Supply of 125 mm dia GI medium class pipe	200.000	metre	1646.00	329200.00	Rupees Three Lakh Twenty Nine Thousand Two Hundred Only
1.015	Supply of 150 mm dia GI medium class pipe	1500.000	metre	2012.00	3018000.00	Rupees Thirty Lakh Eighteen Thousand Only
1.016	Add 5% for GI Specials	5640284.000	L.S	0.05	282014.20	Rupees Two Lakh Eighty Two Thousand Fourteen and Twenty Paise Only
1.017	Cutting the bituminous / concrete roads with cutting machine for a minimum depth of 200mm along the sides of proposed alignment of the pipe to be laid without causing any damage to other utilities, including the charges for hire and conveyance of tools and plant, cost of consumables and charges for lighting, watching, ribbon fencing, caution boards, traffic diversion, and as per the direction of departmental officers etc. complete, before carrying out the demolition of bituminous / concrete road by mechanical means and carrying out the	16800.000	metre	29.00	487200.00	Rupees Four Lakh Eighty Seven Thousand Two Hundred Only
1.018	Dismantling manually/ by mechanical means and disposal of materials within 50 m lead as per direction of departmental Engineer in charge	8400.000	sqm	84.00	705600.00	Rupees Seven Lakh Five Thousand Six Hundred Only
1.019	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :All kinds of soil (Ref. Item No. 2.10.1 of DSR)	7381.500	cum	447.00	3299530.50	Rupees Thirty Two Lakh Ninety Nine Thousand Five Hundred Thirty and Fifty Paise Only
1.02	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :"Ordinary Rock.	2109.000	cum	649.00	1368741.00	Rupees Thirteen Lakh Sixty Eight Thousand Seven Hundred Forty One Only
1.021	Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 m ² on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. Medium Rock (blasting prohibited)	1054.500	cum	853.00	899488.50	Rupees Eight Lakh Ninety Nine Thousand Four Hundred Eighty Eight and Fifty Paise Only
1.022	Fencing one side of trenches, 1.50 m height with two rows of 10 cm plastic caution tape in vertical casuarina pole (girth 15cm to 24cm) fixed at 2 m intervals.	18060.000	metre	24.00	433440.00	Rupees Four Lakh Thirty Three Thousand Four Hundred Forty Only
1.023	"Laying HDPE pipes (IS : 4984) on land portion including conveying within initial lead and aligning the pipes, electro-fusion welding using automatic or semi automatic electrofusion machines, testing the pipe line thus fabricated to suit the hydraulic working pressure and after testing , aligning the pipeline, lowering the pipe in position into the trenches already made, testing the line to suitable pressure with potable water before back filling and leveling the trenches including all labour charge, hire for appliances etc. complete but excluding cost of pipe and fittings. 90 mm OD HDPE pipe"	20000.000	metre	70.00	1400000.00	Rupees Fourteen Lakh Only



1.024	Laying HDPE pipes (IS : 4984)on land portion including conveying within initial lead and aligning the pipes, electro-fusion welding using automatic or semi automatic electrofusion machines, testing the pipe line thus fabricated to suit the hydraulic working pressure and after testing , aligning the pipeline, lowering the pipe in position into the trenches already made, testing the line to suitable pressure with potable water before back filling and leveling the trenches including all labour charge, hire for appliances etc. complete but excluding cost of pipe and fittings.110 mm OD HDPE pipe	2000.000	metre	108.00	216000.00	Rupees Two Lakh Sixteen Thousand Only
1.025	"Laying HDPE pipes (IS : 4984)on land portion including conveying within initial lead and aligning the pipes, electro-fusion welding using automatic or semi-automatic electro fusion machines, testing the pipe line thus fabricated to suit the hydraulic working pressure and after testing , aligning the pipeline, lowering the pipe in position into the trenches already made, testing the line to suitable pressure with potable water before back filling and levelling the trenches including all labour charge, hire for appliances etc. complete but excluding cost of pipe and fittings. 75 mm OD HDPE pipe	2000.000	metre	74.00	148000.00	Rupees One Lakh Forty Eight Thousand Only
1.026	Laying HDPE pipes (IS : 4984)on land portion including conveying within initial lead and aligning the pipes, electro-fusion welding using automatic or semi automatic electrofusion machines, testing the pipe line thus fabricated to suit the hydraulic working pressure and after testing , aligning the pipeline, lowering the pipe in position into the trenches already made, testing the line to suitable pressure with potable water before back filling and leveling the trenches including all labour charge, hire for appliances etc. complete but excluding cost of pipe and fittings. 140 mm OD HDPE pipe	1600.000	metre	154.00	246400.00	Rupees Two Lakh Forty Six Thousand Four Hundred Only
1.027	Laying HDPE pipes (IS : 4984)on land portion including conveying within initial lead and aligning the pipes, electro-fusion welding using automatic or semi automatic electrofusion machines, testing the pipe line thus fabricated to suit the hydraulic working pressure and after testing , aligning the pipeline, lowering the pipe in position into the trenches already made, testing the line to suitable pressure with potable water before back filling and leveling the trenches including all labour charge, hire for appliances etc. complete but excluding cost of pipe and fittings. 160 mm OD HDPE pipe	4500.000	metre	184.00	828000.00	Rupees Eight Lakh Twenty Eight Thousand Only
1.028	Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. but excluding cost of pipes and fittings - External work. 65 mm dia nominal bore	500.000	metre	178.00	89000.00	Rupees Eighty Nine Thousand Only
1.029	Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. but excluding cost of pipes and fittings - External work. 80 mm dia nominal bore	2000.000	metre	178.00	356000.00	Rupees Three Lakh Fifty Six Thousand Only
1.03	Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. but excluding cost of pipes and fittings - External work. 100 mm dia nominal bore Observed	500.000	metre	201.00	100500.00	Rupees One Lakh Five Hundred Only
1.031	"Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. but excluding cost of pipes and fittings - External work. 125 mm dia nominal bore Observed	200.000	metre	225.00	45000.00	Rupees Forty Five Thousand Only
1.032	Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. but excluding cost of pipes and fittings - External work. 150 mm dia nominal ore Observed	1500.000	metre	249.00	373500.00	Rupees Three Lakh Seventy Three Thousand Five Hundred Only



1.033	Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etc . excluding the cost of air valve(the tail pieces if required will be paid seperately): 25 mm Single acting Air Valve Observed	10.000	Nos	120.00	1200.00	Rupees One Thousand Two Hundred Only
1.034	"Conveying and fixing C.I. sluice valves (with cap) by providing complete with bolts, nuts, rubber insertions etc. excluding the cost of valve (the tail pieces if required will be paid separately) :80 mm diameter. Class I"Observed	10.000	Nos	503.00	5030.00	Rupees Five Thousand Thirty Only
1.035	Conveying and fixing C.I. sluice valves (with cap) by providing complete with bolts, nuts, rubber insertions etc. excluding the cost of valve (the tail pieces if required will be paid separately) :150 mm diameter. Class I"	1.000	Nos	1027.00	1027.00	Rupees One Thousand Twenty Seven Only
1.036	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil	6.800	cum	205.00	1394.00	Rupees One Thousand Three Hundred Ninety Four Only
1.037	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)	0.325	cum	6515.00	2117.38	Rupees Two Thousand One Hundred Seventeen and Thirty Seven Paise Only
1.038	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:1:1:5:3 (1 cement 1.5 coarse sand :3 graded stone aggregate 20 mm nominal size	28.917	cum	8685.00	251144.15	Rupees Two Lakh Fifty One Thousand One Hundred Forty Four and Fourteen Paise Only
1.039	Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete	160.322	sqm	320.00	51303.04	Rupees Fifty One Thousand Three Hundred Three and Four Paise Only
1.04	Centering and shuttering including strutting, etc. and removal of form for:Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	11.520	sqm	686.00	7902.72	Rupees Seven Thousand Nine Hundred Two and Seventy Two Paise Only
1.041	Centering and shuttering including strutting, etc. and removal of form for:	2.120	sqm	780.00	1653.60	Rupees One Thousand Six Hundred Fifty Three and Sixty Paise Only
1.042	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more	1735.020	kilogram	94.00	163091.88	Rupees One Lakh Sixty Three Thousand Ninety One and Eighty Eight Paise Only
1.043	Providing 15mm (1/2 inch) house connection with 15mm water meter from existing PVC / HDPE mains up to 110 mm dia., up to a length of 5m using 20mm (1/2 inch) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression / GM / Brass specials viz. brass ferrule, brass hexagonal nipple, GM full way wheel valve, bend, MTA, FTA, couplers, PVC Service Saddle of suitable size etc. and connecting with the mains, testing the joints etc. complete including trenching and refilling in all kinds of soil up to a depth of 1.50m for main line tracing and trench of average cross section 0.3m x 0.75m for laying connection pipe and service pipe, fixing water meter, lighting, watching, providing caution boards, traffic control etc. complete including cost of materials, hire for tools, cost of consumables and labour charges, including the cost of tested Class B Multijet water meter with ISI mark and weather resistant PP / PE meter box of minimum size 300mm x 200mm x 150mm, but excluding charges for cutting the concrete / tarred / bituminous roads etc, and as per the direction of the departmental officers.	400.000	Nos	6652.00	2660800.00	Rupees Twenty Six Lakh Sixty Thousand Eight Hundred Only



1.044	Providing 15mm (1/2 inch) house connection with 15mm water meter from existing PVC / HDPE mains from 140mm to 200mm dia., up to a length of 5 m using 20mm (1/2 inch) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression / GM / Brass specials viz. brass ferrule, brass hexagonal nipple, GM full way wheel valve, bend, MTA, FTA, couplers, PVC Service Saddle of suitable size etc. and connecting with the mains, testing the joints etc. complete including trenching and refilling in all kinds of soil up to a depth of 1.50m for main line tracing and trench of average cross section 0.3m x 0.75m for laying connection pipe and service pipe, fixing water meter, lighting, watching, providing caution boards, traffic control etc. complete including cost of materials, hire for tools, cost of consumables and labour charges, including the cost of tested Class B Multijet water meter with ISI mark and weather resistant PP / PE meter box of minimum size 300mm x 200mm x 150mm, but excluding charges for cutting the concrete / tarred / bituminous roads etc, and as per the direction of the departmental officers.	60.000	Nos	6739.00	404340.00	Rupees Four Lakh Four Thousand Three Hundred Forty Only
1.045	Providing additional length of house connection pipe using 20 mm (1/2 inch) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PN16 specials and testing the joints etc., by trenching and refilling in all kinds of soil with trench of average cross section 0.3m x 0.75m for laying of connection pipe and service pipe, lighting, watching, providing caution boards, traffic control etc., including cost of materials, hire for tools, cost of consumables and labour charges etc. complete, but excluding the cost of cutting of concrete / tarred / bituminous roads etc., and as per the directions of the department officers.	11500.000	metre	148.00	1702000.00	Rupees Seventeen Lakh Two Thousand Only
1.046	Providing 15mm PVC Tap in the water meter assembly for 15mm connection, using 20mm Indian Standard Class 6 uPVC pipes and specials including cost of materials, consumables, hire charges for tools and labour charges etc. complete and as per the direction of departmental officers.	460.000	Nos	556.00	255760.00	Rupees Two Lakh Fifty Five Thousand Seven Hundred Sixty Only
1.047	Providing 20mm (1/2 inch) PVC Air Valve in the water meter assembly for 15mm water connection, using 20mm (1/2 inch) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PP PN 16 Compression specials including cost of materials, consumables, hire for tools and labour charges etc. complete and as per the directions of the department officers.	50.000	Nos	552.00	27600.00	Rupees Twenty Seven Thousand Six Hundred Only
1.048	Supplying and fixing 150mm CI surface box embeded with RCC slab of size 0.6x0.6x0.15 and 160mm or above size PVC 10Kg/cm2 pipe acting as protection tube with including all cost of conveyance, labour charges etc.complete	26.000	No	2713.00	70538.00	Rupees Seventy Thousand Five Hundred Thirty Eight Only
1.049	Providing and Fixing Water Tap post using 75 mm PVC 6 Kg pipe including filling sand inside, fixing in position in Cement concrete.	460.000	No	311.00	143060.00	Rupees One Lakh Forty Three Thousand Sixty Only
1.05	Brick work with common burnt clay F.P.S (non modular) bricks of class designation 7.5 in foundation and plinth in:	11.041	cum	7175.00	79219.18	Rupees Seventy Nine Thousand Two Hundred Nineteen and Seventeen Paise Only
1.051	12 mm cement plaster of mix:	446.200	sqm	300.00	133860.00	Rupees One Lakh Thirty Three Thousand Eight Hundred Sixty Only
1.052	Statutory fees for water connection	400.000	No	578.00		
1.053	Statuary chargers for water connection beyond 30m	60.000	No	1078.00		
1.054	Cost for Geo tagging connections	460.000	No	20.00		



1.055	Demolishing cement concrete manually / by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in-Charge.Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	675.000	cum	1749.00	1180575.00	Rupees Eleven Lakh Eighty Thousand Five Hundred Seventy Five Only
1.056	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	675.000	cum	9075.00	6125625.00	Rupees Sixty One Lakh Twenty Five Thousand Six Hundred Twenty Five Only
1.057	Excavation for road work in soil, Compacting Original Ground supporting sub grade Loosening of the ground up to a level of 300 mm below the sub grade level, watered, graded and compacted in layers to meet requirement of Tables 300.1 and 300.2 for sub grade construction as per Technical Specification Clause 303.5.2.	1875.000	cum	58.00	108750.00	Rupees One Lakh Eight Thousand Seven Hundred Fifty Only
1.058	Providing , laying spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) to wet mix macadam (WMM) specification including premixing the material with water at OMC in mechanical mix plant, carriage of mixed material by tipper to site, for all leads & lifts, laying in uniform layers with mechanical paver finisher in sub - base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer - in- Charge.	1567.500	cum	2972.00	4658610.00	Rupees Forty Six Lakh Fifty Eight Thousand Six Hundred Ten Only
1.059	Prime Coat :-Low porosity Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70-1.0 kg/sqm using mechanical means as per Technical Specification Clause 502	7500.000	sqm	62.00	465000.00	Rupees Four Lakh Sixty Five Thousand Only
1.06	Tack Coat Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surfaces treated with primer & cleaned with Hydraulic broom as per Technical Specification Clause 503	13500.000	sqm	13.00	175500.00	Rupees One Lakh Seventy Five Thousand Five Hundred Only
1.061	20mm thick Open-Graded Premix Carpet using Bituminous (penetration grade/modified bitumen) Binder - Bitumen S-65 Providing, laying and rolling of open-graded premix carpet of 20mm thickness composed of 13.2 mm to 5.6 mm aggregates either using penetration grade bitumen or emulsion to required line, grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable plant, laying and rolling with a three wheel 80-100 kN static roller capacity, finished to required level and grades to be followed by seal coat of either Type A or Type B or Type C as per Technical Specification Clause 508.Case - I By Manual Means (II)Bitumen (S-65)	13500.000	sqm	135.00	1822500.00	Rupees Eighteen Lakh Twenty Two Thousand Five Hundred Only
1.062	Seal Coat - Manual Means - Type C - Bitumen S-65 Providing and laying seal coat sealing the voids in a bituminous surface laid to the specified levels, grade and cross fall using Type A,Type B and Type C as per Technical Specification Clause 510 A.By Manual Means:-Case - III : TypeC (II)Bitumen (S-65)	13500.000	sqm	60.00	810000.00	Rupees Eight Lakh Ten Thousand Only
1.063	Demolishing R.C.C. work manually / by mechanical means including stacking of steel bars and disposal of unserviceable material with in 50 metres lead as per direction of Engineer -in-Charge.	0.027	cum	2852.00	77.00	Rupees Seventy Seven Only
1.064	Demolishing R.B. work manually / by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-Charge.	0.027	cum	2551.00	68.88	Rupees Sixty Eight and Eighty Seven Paise Only



2	APPENDIX B :- ROAD RESTORATION WORK - PWD					
2.001	For road work - Loosening and re compacting the trench for a depth of 30 cm including all cost and labour charges	270.000	cum	252.00	68040.00	Rupees Sixty Eight Thousand Forty Only
2.002	Conveying the excavated earth from the site up to 1 KM distance by Mechanical transport including loading, unloading and stacking -(As per DSR 2021-Spec No 1.1.2	270.000	cum	153.00	41310.00	Rupees Forty One Thousand Three Hundred Ten Only
2.003	Construction of granular sub-base by providing graded material, spreading in uniform layers With a motor grader on a prepared surface, mixing by mix in-place method with rotavator at OMC, and compacting with a vibratory roller to achieve the desired density, complete as per clause 401. Grading-III -For lower sub-base - Mix in Place Method (PWD 4.2.A.1)	135.000	cum	2861.00	386235.00	Rupees Three Lakh Eighty Six Thousand Two Hundred Thirty Five Only
2.004	W M M -Providing, laying, spreading and compacting graded stone aggregate to Wet Mix Macadam specification including premixing the Material with water at OMC in mechanical mix plant Carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base /base course on well prepared surface and compacting with vibratory roller to achieve the desired density	135.000	cum	2972.00	401220.00	Rupees Four Lakh One Thousand Two Hundred Twenty Only
2.005	(SS) Providing and applying primer coat with bitumen emulsion (SS) on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.70 - 1.0kg/sqm using mechanical means.	900.000	cum	62.00	55800.00	Rupees Fifty Five Thousand Eight Hundred Only
2.006	(R S) Providing and applying tack coat with Bitumin emulsion (RS) using emulsion pressure distributor at the rate of 0.20 to 0.30kg/sqm on the prepates bituminous surface cleaned with mechanical broom. (Data as per item no 5.2.a of	1620.000	sqm	13.00	21060.00	Rupees Twenty One Thousand Sixty Only
2.007	Providing, laying and rolling of close-graded premix surfacing material of 20 mm thickness composed of 11.2 mm to 0.09 mm (Type-A) aggregates using viscosity grade bitumen (VG - 30) to the required line, grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable HMP of appropriate capacity not less than 75 tonnes/hour., laying and rolling with a Smooth wheeled roller 8-10 tonne capacity, and finishing to required level and	1620.000	sqm	178.00	288360.00	Rupees Two Lakh Eighty Eight Thousand Three Hundred Sixty Only
2.008	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads on bituminous surface @250 gms per sqm area ,the thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC :35. the finished surface to be level ,uniform,and free from streaks and holes. - Specification code: 8.13 of PWD	180.000	sqm	458.00	82440.00	Rupees Eighty Two Thousand Four Hundred Forty Only



3	Appendix C- Improvement of existing scheme- Designe,Testing and commissioning of 20 HP C/F pump set at Chenkottakkolli and distribution					
3.001	Supply and erection of Submersible pump set with the following specification, 1. Pump Supply, erection, testing and commissioning of KWA pre-qualified reputed make Submersible pump sets with Bronze/SS impeller, SS shaft and CI pump casing with suitable type base plate with coupling, coupling guard foundation bolts & nuts etc. complete suitable for coupling the pump and motor above the base plate etc. complete including providing suitable concrete foundation including cost of cement sand and metal etc. complete. The duty condition is as follows. Discharge 6lps, speed up to 1450RPM, Total Head 136m, Suction Head, Length of suction pipe, size of pumping main 80mm dia GI pipe. Alternatively, the inlet & outlet levels, type, size & length of pumping main etc. can be given. Modification may do for Mon block Pumpset. 2. Motor Supply, erection, testing and commissioning of KWA pre-qualified reputed make horizontal solid shaft foot mounted TEFC squirrel cage induction motor suitable for the above pump working 3 phase 50Hz AC supply, working voltage 440V (select the suitable). The motor shall confirm to EEFI/IS 325 including providing suitable concrete foundation including cost of cement sand and metal etc. Complete for 440V motors digital motor protection relay shall be included in starter as per per IE rules. Flexible coupling shall be used for coupling of pumps and motors. 3. Starter Supply, erection, testing and commissioning of suitable rating (Fully Automatic starter with air brake contact for less than 100HP and for above 100 HP FCMA starters to be used.) starter suitable for the above motor with over voltage and under voltage protection, single phase preventer, over load relay with motor protection relay with main contractor and bypass contractor as per IE rules and code of practice etc. complete. 4. Panel board (suitable for operating three pump sets but two pump set at a time) Supply, erection, testing and commissioning of cubical type floor mounted MS fabricated dust and vermin proof common control panel board consisting of 1 No. suitable capacity MCCB as incomer and 3 Nos of suitable capacity MCCB as outgoing(the	20.000	Hp	14000.00	280000.00	Rupees Two Lakh Eighty Thousand Only
3.002	Supply of suitable Sq.mm additional cable ,beyond the initial supply of 10m	10.000	metre	1130.00	11300.00	Rupees Eleven Thousand Three Hundred Only
3.003	Design, supply, installation and commissioning of Vertical type Pressure Filter having 10mm Dished and Thickness, 8mm Shell Thickness, 100mm Top Distribution, 100mm Bottom Collector,5 Nos Butterfly Valves, Height of Filter 1500mm/Suitable size Mild Steel Plate, Dia of the filter 1600mm/ Suitable size Mild Steel Plate,100mm MS Pipe, 8kg Max. Working pressure, 2Kg Min. Working Pressure, 10Hours Back Wash Duration, 24 Hours Working, 25mm Air Valve 1 no,2 Nos Pressure Gauge, 22m3/hr Discharge, Including Cost of Pebbles, Course sand, Filter sand, Enamel Painting with red oxide primer, Providing foundation (2x2x0.2mSize) including necessary trenching works as per the dia of pressure filter required depth and providing RCC 1:1.5:3 mix and firmly fixing the filter	1.000	No	950000.00	950000.00	Rupees Nine Lakh Fifty Thousand Only
3.004	Supply of PE Pipe, PE100, PN10, 90mm dia, conforming to IS 4984/2016.	4000.000	metre	283.00	1132000.00	Rupees Eleven Lakh Thirty Two Thousand Only
3.005	Add 5% for Specials	1068600.000	L.S	0.05	53430.00	Rupees Fifty Three Thousand Four Hundred Thirty Only
3.006	80 mm gi pipe medium	250.000	metre	856.00	214000.00	Rupees Two Lakh Fourteen Thousand Only
3.007	Add 5% for GI Specials	200075.000	L.S	0.05	10003.75	Rupees Ten Thousand Three and Seventy Five Paise Only



3.008	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :All kinds of soil (Ref. Item No. 2.10.1 of DSR)	840.000	cum	447.00	375480.00	Rupees Three Lakh Seventy Five Thousand Four Hundred Eighty Only
3.009	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : "Ordinary Rock. (Ref. Item No. 2.13.1 of DSR)	240.000	cum	649.00	155760.00	Rupees One Lakh Fifty Five Thousand Seven Hundred Sixty Only
3.01	Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 m ² on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. Medium Rock (blasting prohibited) New Data derived from Item No.2.9.3	120.000	cum	853.00	102360.00	Rupees One Lakh Two Thousand Three Hundred Sixty Only
3.011	Fencing one side of trenches, 1.50 m height with two rows of 10 cm plastic caution tape in vertical casuarina pole (girth 15cm to 24cm) fixed at 2 m intervals. (Data Prepared based on PWD SDB - Item No.1009)	2400.000	metre	24.00	57600.00	Rupees Fifty Seven Thousand Six Hundred Only
3.012	"Laying HDPE pipes (IS : 4984) on land portion including conveying within initial lead and aligning the pipes, electro-fusion welding using automatic or semi automatic electrofusion machines, testing the pipe line thus fabricated to suit the hydraulic working pressure and after testing , aligning the pipeline, lowering the pipe in position into the trenches already made, testing the line to suitable pressure with potable water before back filling and leveling the trenches including all labour charge, hire for appliances etc. complete but excluding cost of pipe and fittings. 90 mm OD HDPE pipe"	4000.000	metre	70.00	280000.00	Rupees Two Lakh Eighty Thousand Only
3.013	Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. but excluding cost of pipes and fittings - External work. 80 mm dia nominal bore Data derived from item no.18.12.8 of DAR Data for 10	250.000	metre	199.00	49750.00	Rupees Forty Nine Thousand Seven Hundred Fifty Only
3.014	Supply of CI Air Valve, Conforming to IS 14848 - 2000, Single Orifice, Small Orifice Type S1, Size 40mm.	5.000	No	5805.00	29025.00	Rupees Twenty Nine Thousand Twenty Five Only
3.015	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 80mm.	1.000	No	6293.00	6293.00	Rupees Six Thousand Two Hundred Ninety Three Only
3.016	Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etc . excluding the cost of air valve(the tail pieces if required will be paid separately): 40 mm Single acting Air Valve Observed Data derived from item no.18.59.of DAR	5.000	Nos	170.00	850.00	Rupees Eight Hundred Fifty Only
3.017	"Conveying and fixing C.I. sluice valves (with cap) by providing complete with bolts, nuts, rubber insertions etc. excluding the cost of valve (the tail pieces if required will be paid separately) :80 mm diameter. Class I"Observed Data derived from item no.18.31.of DAR	1.000	Nos	562.00	562.00	Rupees Five Hundred Sixty Two Only



3.018	Desilting open wells of dia above 3.5m and up to 6.0m and depth up to 4.5m by earth work excavation in or under water, after closing the inlet valves and plugging any holes in the steining by engaging divers with breathing accessories, bailing out water using pumset of suitable capacity, lifting the excavated silt/mud/clay using ropes, pulleys and buckets and disposing the same within minimum lead of 50 m from the periphery of the well, including engaging coolies for scrapping the inner side of the well, without causing any damages to the existing structures and installations, including hire and conveyance of tools and plant and as per the directions of the department officers etc. complete.	29.440	cum	1117.00	32884.48	Rupees Thirty Two Thousand Eight Hundred Eighty Four and Forty Eight Paise Only
3.019	Bailing out water with 5 HP engine and pumpset including conveyance to the site, erection, dismantling and taking back of engine and pump, cost of fuel lubricating oil and other stores pay of staff etc. complete. NEW DATA (Prepared based on PHED SDB - Item No.1070	1000.000	Kwh	35.00	35000.00	Rupees Thirty Five Thousand Only
Total in Figures					56454177.00	Rupees Five Crore Sixty Four Lakh Fifty Four Thousand One Hundred Seventy Six and Ninety

Note :- Item No.1.052,1.053 & 1.054 not included in Boq Schedule But should be recorded in the measurement book.



Jal Jeevan Mission- Phase III - Providing FHTC in Chakkittapara Panchayath -Package I- Providing FHTC by Augmentation of existing water supply scheme

e-Tender No : SE/PHC/KKD/08/2022-23

Abstract

Tendered PAC	=	Rs. 59,160,453
Accepted Rate	=	Rs. 56,454,177.00
% over all Excess / Below	=	$\frac{(56454177-59160453)}{59160453} \times 100$
	=	-4.57 % Beow Tendered PAC



Additional Performance Guarantee Calculation Sheet

Work Name:Jal Jeevan Mission-2022 - 24 - Phase III (4th SWSM)- Providing FHTC in Chakkittapara Panchayath -Package I- Providing FHTC by Augmentation of existing water supply scheme (460FHTCs)

Tender No:-SE/PHC/KKD/08/2022-23

Sl. No.	Item Description	Quantity	Units	Estimated Rate in Rs.	TOTAL AMOUNT Without Taxes in Rs. P	Quoted Rate (Q)	10% Below Quoted (X)	(X-10)%	Additional Performance Guarantee Amount
1	APPENDIX A -PROVIDING 460 nos FHTC BY EXTENDING EXISTING DISTRIBUTION NET WORK								
1.019	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidatingeach deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :All kinds of soil (Ref. Item No. 2.10.1 of DSR)	7381.500	cum	559.00	4126221.59	447	-20	10	414069
1.02	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidatingeach deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :"Ordinary Rock. (Ref. Item No. 2.13.1 of DSR)	2109.000	cum	811.82	1712124.16	649	-20	10	172171
1.021	Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 m2 on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.Medium Rock (blasting prohibited)New Data derived from Item No.2.9.3	1054.500	cum	1066.55	1124678.03	853	-20	10	112722
1.022	Fencing one side of trenches, 1.50 m height with two rows of 10 cm plastic caution tape in vertical casuarina pole (girth 15cm to 24cm) fixed at 2 m intervals. (Data Prepared based on PWD SDB - Item No.1009)	18060.000	metre	28.12	507919.44	24	-15	5	23687



1.023	"Laying HDPE pipes (IS : 4984)on land portion including conveying within initial lead and aligning the pipes, electro-fusion welding using automatic or semi automatic electrofusion machines, testing the pipe line thus fabricated to suit the hydraulic working pressure and after testing , aligning the pipeline, lowering the pipe in position into the trenches already made, testing the line to suitable pressure with potable water before back filling and leveling the trenches including all labour charge, hire for appliances etc. complete but excluding cost of pipe and fittings. 90 mm OD HDPE pipe"	2000.000	metre	93.87	1877420.00	70	-25	15	289678
1.024	Laying HDPE pipes (IS : 4984)on land portion including conveying within initial lead and aligning the pipes, electro-fusion welding using automatic or semi automatic electrofusion machines, testing the pipe line thus fabricated to suit the hydraulic working pressure and after testing , aligning the pipeline, lowering the pipe in position into the trenches already made, testing the line to suitable pressure with potable water before back filling and leveling the trenches including all labour charge, hire for appliances etc. complete but excluding cost of pipe and fittings.110 mm OD HDPE pipeNEW DATA	2000.000	metre	127.30	254598.00	108	-15	5	13138
1.025	"Laying HDPE pipes (IS : 4984)on land portion including conveying within initial lead and aligning the pipes, electro-fusion welding using automatic or semi-automatic electro fusion machines, testing the pipe line thus fabricated to suit the hydraulic working pressure and after testing , aligning the pipeline, lowering the pipe in position into the trenches already made, testing the line to suitable pressure with potable water before back filling and levelling the trenches including all labour charge, hire for appliances etc. complete but excluding cost of pipe and fittings. 75 mm OD HDPE pipe" 	2000.000	metre	87.61	175216.00	74	-16	6	9694
1.026	Laying HDPE pipes (IS : 4984)on land portion including conveying within initial lead and aligning the pipes, electro-fusion welding using automatic or semi automatic electrofusion machines, testing the pipe line thus fabricated to suit the hydraulic working pressure and after testing , aligning the pipeline, lowering the pipe in position into the trenches already made, testing the line to suitable pressure with potable water before back filling and leveling the trenches including all labour charge, hire for appliances etc. complete but excluding cost of pipe and fittings. 140 mm OD HDPE pipeNEW DATA	1600.000	metre	181.33	290126.40	154	-15	5	14714



1.027	Laying HDPE pipes (IS : 4984)on land portion including conveying within initial lead and aligning the pipes, electro-fusion welding using automatic or semi automatic electrofusion machines, testing the pipe line thus fabricated to suit the hydraulic working pressure and after testing , aligning the pipeline, lowering the pipe in position into the trenches already made, testing the line to suitable pressure with potable water before back filling and leveling the trenches including all labour charge, hire for appliances etc. complete but excluding cost of pipe and fittings. 160 mm OD HDPE pipe NEW DATA	4500.000	metre	216.53	974385.00	184	-15	5	48947
1.028	Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. but excluding cost of pipes and fittings - External work. 65 mm dia nominal boreData derived from item no.18.12.7 of DARDData for 10 m	500.000	metre	209.57	104786.00	178	-15	5	5307
1.029	Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. but excluding cost of pipes and fittings - External work. 80 mm dia nominal bore Data derived from item no.18.12.8 of DARDData for 10 m	2000.000	metre	209.91	419826.00	178	-15	5	21843
1.03	Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. but excluding cost of pipes and fittings - External work. 100 mm dia nominal bore Observed Data derived from item no.18.12 of DAR	500.000	metre	236.66	118327.50	201	-15	5	5995
1.031	"Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. but excluding cost of pipes and fittings - External work. 125 mm dia nominal bore Observed Data derived from item no.18.12 of DAR	200.000	metre	265.10	53020.60	225	-15	5	2719
1.032	Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. but excluding cost of pipes and fittings - External work. 150 mm dia nominal ore Observed Data derived from item no.18.12 of DAR	1500.000	metre	293.21	439815.00	249	-15	5	22334
1.033	Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etc . excluding the cost of air valve(the tail pieces if required will be paid seperately): 25 mm Single acting Air Valve Observed Data derived from item no.18.59.of DAR	10.000	Nos	141.35	1413.52	120	-15	5	72
1.034	"Conveying and fixing C.I. sluice valves (with cap) by providing complete with bolts, nuts, rubber insertions etc. excluding the cost of valve (the tail pieces if required will be paid separately) :80 mm diameter. Class I"Observed Data derived from item no.18.31.of DAR	10.000	Nos	591.67	5916.72	503	-15	5	295



1.035	Conveying and fixing C.I. sluice valves (with cap) by providing complete with bolts, nuts, rubber insertions etc. excluding the cost of valve (the tail pieces if required will be paid separately) :150 mm diameter. Class I>Data derived from item no.18.31.3.1 of DAR	1.000	Nos	1208.24	1208.24	1027	-15	5	60
1.045	Providing additional length of house connection pipe using 20 mm (1/2 inch) PE Pipe, PE80, PN16, Conforming to IS 4984: 2016 or later edition and PN16 specials and testing the joints etc., by trenching and refilling in all kinds of soil with trench of average cross section 0.3m x 0.75m for laying of connection pipe and service pipe, lighting, watching, providing caution boards, traffic control etc., including cost of materials, hire for tools, cost of consumables and labour charges etc. complete, but excluding the cost of cutting of concrete / tarred / bituminous roads etc., and as per the directions of the department officers.	11500.000	metre	174.17	2002955.00	148	-15	5	100660
1.052	Demolishing cement concrete manually / by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in-Charge.Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	675.000	cum	2057.99	1389145.28	1749	-15	5	69656
1.058	:5.9.1.2a 20mm thick Open-Graded Premix Carpet using Bituminous (penetration grade/modified bitumen) Binder - Bitumen S-65 Providing, laying and rolling of open-graded premix carpet of 20mm thickness composed of 13.2 mm to 5.6 mm aggregates either using penetration grade bitumen or emulsion to required line, grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable plant, laying and rolling with a three wheel 80-100 kN static roller capacity, finished to required level and grades to be followed by seal coat of either Type A or Type B or Type C as per Technical Specification Clause 508.Case - I By Manual Means (II)Bitumen (S-65)	13500.000	sqm	159.20	2149200.00	135	-15	5	111780
3.008	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidatingeach deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :All kinds of soil (Ref. Item No. 2.10.1 of DSR)	840.000	cum	559.00	469555.80	447	-20	10	47120



3.009	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : "Ordinary Rock. (Ref. Item No. 2.13.1 of DSR)	240.000	cum	811.82	194836.32	649	-20	10	19593
3.01	Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 m2 on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. Medium Rock (blasting prohibited) New Data derived from Item No.2.9.3	120.000	cum	1066.55	127986.12	853	-20	10	12828
3.011	Fencing one side of trenches, 1.50 m height with two rows of 10 cm plastic caution tape in vertical casuarina pole (girth 15cm to 24cm) fixed at 2 m intervals. (Data Prepared based on PWD SDB - Item No.1009)	2400.000	metre	28.12	67497.60	24	-15	5	3148
3.012	"Laying HDPE pipes (IS : 4984) on land portion including conveying within initial lead and aligning the pipes, electro-fusion welding using automatic or semi automatic electrofusion machines, testing the pipe line thus fabricated to suit the hydraulic working pressure and after testing , aligning the pipeline, lowering the pipe in position into the trenches already made, testing the line to suitable pressure with potable water before back filling and leveling the trenches including all labour charge, hire for appliances etc. complete but excluding cost of pipe and fittings. 90 mm OD HDPE pipe"	4000.000	metre	93.87	375484.00	70	-25	15	57936

Total Amount 1580164

Roundoff Amount 1580200





GOVERNMENT OF KERALA

Abstract

Finance Department – Execution of public works on Item Rate Contracts – Regulating the abnormally high quoted and low quoted items – Clarifications – Orders issued

FINANCE (INDUSTRIES & PUBLIC WORKS - B) DEPARTMENT

G.O.(P)No. 54/2019/Fin.

Dated, Thiruvananthapuram, 04.05.2019

- Read :-
- 1) G.O.(P) No. 324/2015/Fin dated 30.07.2015
 - 2) G.O.(P) No. 30/2016/Fin dated 29.02.2016
 - 3) G.O.(P) No. 16/2017/Fin dated 06.02.2017
 - 4) G.O.(P) No. 8/2018/Fin dated 15.01.2018
 - 5) G.O.(P) No. 154/2018/ Fin dated 01.10.2018

ORDER

As per the Government Order cited 1st and 2nd papers, all tenders for public works costing more than ₹ 5 lakhs shall be invited through E-tender portal on Item Rate Contract only. Vide Government Order read as 3rd and 5th papers, Government have dispensed the Tender Committees at Government level and delegated powers to the Departmental Tender Committees at Chief Engineer, Superintending Engineer and Executive Engineer levels for approving the tenders subject to certain conditions.

2) In order to avoid time and cost over run on account of deviations necessitated during the course of execution of work, as per the Government Order read as 4th above, instructions were issued to all Government Departments and PSUs to ensure the detailed investigation, design, estimation etc while according Administrative Sanction itself. It was also stipulated that if revision of estimates in excess of 10% of Technical Sanction amount is necessitated due to lapses in



investigation / design / planning / estimation, the Officers will be made accountable and proceeded against.

3) As per relevant Clauses of Government approved Standard Bidding Document (SBD), the contractor is bound to execute excess quantities up to 25% of scheduled quantity at contract rates. The criteria to be adopted for fixing the rates for excess quantities and extra items are also mentioned in the SBD.

4) However, some discrepancies have been observed while processing of tenders and execution of works under Item Rate Contracts. Also instances have been noticed where the low quoted items are excluded during execution and excess quantities of high quoted items are executed without adequate technical justification, resulting in heavy loss to the public exchequer.

5) In order to avoid such instances in future, Government are pleased to issue the following clarifications on Item Rate Contracts to all Government Departments and PSUs:-

- 1) Tenders for all public works costing more than ₹ 5 lakh shall be invited through E-tenders on Item Rate Contract only.
- 2) The bidder who has quoted lowest total amount shall be considered as L1.
- 3) The quoted rates of L1 for all items may be compared with current DSR and current LMR. The items whose quoted rates are more than current DSR may be treated as High Quoted Items and less than current DSR may be treated as Low Quoted Items.
- 4) Negotiations shall be done with L1 only to reduce the high quoted rates so as to explore the possibility for bringing them within DSR + 10% tolerance limit or LMR, which ever is lower.
- 5) The admissible contract amount will be least of (i) Negotiated Contract PAC of L1 (ii) Estimate amount based on current LMR and (iii) Estimate amount based on current DSR plus 10% tolerance limit.
- 6) The quoted rates with deviation of more than (+/-) 25% over Technical Sanction Estimate Rates may be treated as Abnormally High Quoted Rates



(AHQR) item / Abnormally Low Quoted Rates (ALQR) item, as the case may be. In respect of AHQR item, under normal circumstances, the contract rate is applicable for the scheduled quantities in the Agreement only.

- 7) In case of quantities exceeding the agreement schedule quantities and up to 25% limit that are necessitated for proper completion of work, the contract rates of corresponding item shall apply.
- 8) For excess quantities, i.e, quantities in excess of 25% over agreement schedule quantities, the admissible rates shall be limited to Technical Sanctioned Estimate Rate modified by overall tender excess / tender deficit, as the case may be, subject to a maximum of PWD local market rates prevailing at the time of ordering.
- 9) In case of ALQR items, sanction of Technical Sanction authority shall be insisted before limiting execution of concerned item less than 75% scheduled quantity.
- 10) The relevant clauses of Standard Bidding Document (SBD) and Kerala PWD Manual 2012 shall be modified accordingly.

**By Order of the Governor,
SANJEEV KAUSHIK IAS
Principal Secretary (Finance-Resources)**

To

The Principal Accountant General (A&E) Kerala, Thiruvananthapuram
The Principal Accountant General (G&SSA) Kerala, Thiruvananthapuram
The Accountant General (E&RSA) Kerala, Thiruvananthapuram
The Principal Accountant General (Audit) Kerala, Thiruvananthapuram
All Heads of Departments and Offices
The Secretary to Governor
All Departments of Secretariat
All Private Secretaries to Ministers
Private Secretary to Chief Minister
Private Secretary to the Leader of Opposition
All Secretaries to Government



The Registrar, High Court of Kerala
The Secretary, Kerala Human Rights Commission, Thiruvananthapuram
The Election Commissioner, State Election Commission, Thiruvananthapuram
The Registrar, University of Kerala/Cochin/Kozhikode/Kottayam
The Nodal Officer, www.finance.kerala.gov.in
Stock file/Office Copy (E-1153587)

Forwarded/By Order

Haylowel

Section Officer

