

LETTER OF ACCEPTANCE

To,

Sri/Smt M/s.SAMEERALI CHAKKINGALTHODI

PAN : EEFPS1687C

Your e-Tender No WRD/KWA-CE(CR)/TR/6970/2022_26_3_2/2 dated 22-02-2023 for the Jal Jeevan Mission (JJM)-WSS - to Santhanpara, Rajakumary (Part) and Senapathy (Part) Panchayaths in Idukki District-Package III- Clear Water Pumping Main, GLSR in Rajakumary GP-Pipeline Work has been accepted for a quoted amount of Rs. 15535752/- (Rupees One Crore Fifty Five Lakh Thirty Five Thousand Seven Hundred and Fifty Two only) based on rates quoted for individual items individual items individual items individual items individual items individual items individual items individual items which is mentioned in the accompanying schedule. You are directed to submit the stamp GRN ID/Stamp paper, Performance Guarantee and Additional Performance Guarantee as mentioned below and execute an agreement and start the work within a week after getting necessary instructions from the Executive Engineer(Project Division Kattapana). The time allowed for executing agreement without fine will be 14 (Fourteen) days from the date of issue of letter of acceptance and a further period of 10 (Ten)days time will be allowed to execute the agreement after realizing a fine of Rs. 25000/- (Twenty Five Thousand Only) .This fine shall be remitted in favour of the Managing Director, Kerala Water Authority, Account No - STSB 701011400000181, District Treasury, Thiruvananthapuram through e-treasury payment gateway.

1. stamp paper required value RS. 15540/- (Fifteen Thousand Five Hundred and Forty Only) shall be submitted to the Agreement Authority. (subject to govt orders)

2. Before executing the agreement, you should deposit a Performance Guarantee of 3% of contract value, ie. Rs. 466073/- (Rupees Four Lakh Sixty Six Thousand Seventy Three only) and should be submitted within 14 (Fourteen) days of receipt of this LOA (Letter of Acceptance) as below.

a) At least Fifty (50%) of Performance Guarantee shall be in the form of Treasury Fixed Deposit in the name of Agreement Authority for a period not less than 28 (twenty eight) days after the completion of defect liability period.

b) Balance Performance Guarantee shall be in the form of bank guarantee. Bank Guarantee is to be submitted in the format prescribed by the Employer in the bid document. Bank Guarantee shall be unconditional and it shall be from any Nationalized/ Scheduled Bank/ Kerala Financial Corporation/ District Co-operative Banks, Primary Co-operative Banks, Urban Co-operative Banks or any other forms prescribed in the revised PWD Manual to be submitted before executing agreement and shall be valid till 28 (twenty eight) days after the completion of defect liability of the Work, in approved format. The Bank Guarantee on instalment basis with lesser period of validity shall not be accepted.

3. An Additional Performance Guarantee of Rs. 1335/- (Rupees One Thousand Three Hundred and Thirty Five only) shall be also deposited for unbalanced price in addition to the normal Performance Guarantee in the following form and it should be to be submitted before executing agreement.

a) At least Fifty percent (50%) of Additional Performance Guarantee shall be in the form of Treasury Fixed Deposit in the name of Agreement Authority for a period not less than 28 (twenty eight) days after the completion of the work.

b) Balance Additional Performance Guarantee Treasury shall be in the form of bank guarantee. Bank Guarantee is to be submitted in the format prescribed by the Employer in the bid document. Bank Guarantee shall be unconditional and it shall be from any Nationalized/ Scheduled Bank/ Kerala Financial Corporation/ District Co-operative Banks, Primary Co-operative Banks, Urban Co-operative Banks or any other forms prescribed in the revised PWD Manual and shall be valid till 28(twenty eight) days after the completion of the Work, in approved format. The Bank Guarantee on instalment basis with lesser period of validity shall not be accepted.

OR

a) Full amount of additional performance guarantee shall be accepted in case of guarantees issued by Kerala Financial

Corporation

4. In addition to Performance Guarantee and Additional Performance Guarantee, Performance Security Deposit at the rate 2.5% of Bill amount will be deducted from running bills .

5. Solicitor's fee, if any, to be paid to the Law Officers of Government for scrutinising or drawing up of agreements- will be paid and the same recovered from the successful bidder.

6. You are requested to take an Insurance cover for this work for an amount of Rs. **200000 /- (Rupees Two Lakh only)** and submit the same within 15 days of Start of work subjected to the provisions provided in the Bid Document. 0.2% of the Contract Amount will be deducted in the event of failure to submit the Insurance to the concerned Authorities as noted above. (The value shall be generally 0.5% of the Contract Value subject to a minimum of Rs. 2.00 lakh and maximum of Rs. 5.00 lakh.).

7. Engineering personnel in addition to other supporting staff as detailed below for tenure of the contract for works supervision shall be employed.

Works Manager- 1no (Civil Engineering Graduate with minimum 3 years experience) and Site Engineers- 2 nos (one Civil Engineering graduate and one civil diploma holder with minimum 1 year experience).

8. The Contractor shall enter into a Contract Agreement with the Agreement Authority within 14 Fourteen working days from the date of 'Acceptance of Tender' or within such extended time as may be granted by the Agreement Authority. The date of despatch of Letter of Acceptance through Contractors Portal shall be the date of Acceptance of Tender.

9. In the eventuality of failure to produce the original documents, or submit the performance security, or enter into agreement with the Agreement Authority within the specified time limit, the Bidder shall be debarred in future from participating in all Government Bids for three years and will be recommended for blacklisting by the competent authority. In such cases, the Government may rearrange the work otherwise or get it done departmentally at the risk and the cost of the Bidder and the loss so sustained by the Government can be realized from the Bidder under the Revenue recovery Act or otherwise the Government may decide.

10. The work should be completed in all respects within **1 year** from the date of handing over the site.

11. Defect Liability period will be **2 years**

12. All the details mentioned above shall be submitted to the Agreement Authority within 14 (fourteen) days from the date of 'Acceptance of Tender' or within such extended time as may be granted by the Agreement Authority.

13. All the terms and conditions of the Notice Inviting tenders and tender shall be binding on the Contractor.

Pradeep V.K.(G14136)
Superintending Engineer

ACCEPTED SCHEDULE

Name of Work: Jal Jeevan Mission (JJM)-WSS - to Santhanpara, Rajakumary (Part) and Senapathy (Part) Panchayaths in Idukki District-Package III- Clear Water Pumping Main, GLSR in Rajakumary GP-Pipeline Work (DSR 2018 with Cost Index 141.53)

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
1	Supply and laying Clear Water Pumping Main-cost of materials					
1.001	100.98.117 - Supply of DI K9 Pipe Conforming to IS 8329/2000, 200mm Dia.	2657.000	metre	2876.00	7641532.00	Rupees Seventy Six Lakh Forty One Thousand Five Hundred Thirty Two Only
1.002	100.98.441 - Supply of CI Air Valve, Conforming to IS 14848 - 2000, Single Orifice, Small Orifice Type S1, Size 40mm.	8.000	no	6110.65	48885.20	Rupees Forty Eight Thousand Eight Hundred Eighty Five And Twenty Zero paise Only
1.003	100.98.461 - Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 200mm.	1.000	no	23723.64	23723.64	Rupees Twenty Three Thousand Seven Hundred Twenty Three And Sixty Four paise Only
2	Supply and laying 200mm DI K9 CWPM- Working charges					
2.001	100.1.1 - Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50m, in all kinds of soil.	1787.790	cum	750.00	1340842.50	Rupees Thirteen Lakh Forty Zero Thousand Eight Hundred Forty Two And Fifty Zero paise Only
2.002	100.1.5 - Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm	357.558	cum	766.00	273889.43	Rupees Two Lakh Seventy Three Thousand Eight Hundred Eighty Nine And Forty Three paise Only

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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, in Ordinary Rock.					
2.003	100.2.2 - Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5m in width or 10m ² on plan), including dressing of sides and ramming of bottoms, lift up to 1.5m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m, in Medium Rock where Blasting is Prohibited.	119.186	cum	1006.00	119901.12	Rupees One Lakh Nineteen Thousand Nine Hundred One And Twelve paise Only
2.004	100.1.13 - Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50m, in Hard Rock where Blasting is Prohibited.	119.186	cum	1477.00	176037.72	Rupees One Lakh Seventy Six Thousand Zero Thirty Seven And Seventy Two paise Only
2.005	100.8.1 - Fencing one side of trenches, 1.50m height with two rows of 10cm plastic caution tape in vertical casuarina pole (girth 15cm to 24cm) fixed at 2m intervals.	2500.000	metre	26.24	65600.00	Rupees Sixty Five Thousand Six Hundred Zero Only
2.006	100.59.1 - 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	1400.000	metre	31.00	43400.00	Rupees Forty Three Thousand Four Hundred Zero Only

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	direction of departmental officers etc. complete, before carrying out the demolition of bituminous / concrete road by mechanical means and carrying out the excavation.					
2.007	15.59 - Dismantling of flexible pavement (bituminous courses) by mechanical means and disposal of dismantled material up to a lead of 1 kilo metre, as per direction of Engineer-in-charge.	224.000	cum	394.70	88412.80	Rupees Eighty Eight Thousand Four Hundred Twelve And Eighty Zero paise Only
2.008	15.2.1 - 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)	84.000	cum	2134.00	179256.00	Rupees One Lakh Seventy Nine Thousand Two Hundred Fifty Six Only
2.009	100.14.3 - Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 200mm diameter Ductile Iron Class K-9 Pipes.	2591.000	metre	127.49	330326.59	Rupees Three Lakh Thirty Zero Thousand Three Hundred Twenty Six And Fifty Nine paise Only
2.010	18.30.5 - Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:200 mm diameter pipe	3.000	no	436.82	1310.46	Rupees One Thousand Three Hundred Ten And Forty Six paise Only
2.011	18.70.3 - Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:200 mm dia pipes	485.000	joint	270.11	131003.35	Rupees One Lakh Thirty One Thousand Zero Three And Thirty Five paise Only
2.012	OD110494/2022-2023 - Labour for cutting DI pipe with steel saw 200 mm diameter of DI Pipe	20.000	Each Cut	449.61	8992.20	Rupees Eight Thousand Nine Hundred Ninety Two And Twenty Zero paise Only
2.013	100.35.3 - Testing 200mm DI/CI pipeline with potable water to the required test pressure 200 mm dia Observed Data derived from item no.1020 of PHED DATA	2615.000	metre	37.00	96755.00	Rupees Ninety Six Thousand Seven Hundred Fifty Five Only
2.014	18.68.1 - Providing and laying D.I specials of class K - 12 suitable for push - on	9.480	quintal	21003.05	199108.91	Rupees One Lakh Ninety Nine Thousand

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	jointing as per IS : 9523 :Upt 600 mm dia					One Hundred Eight And Ninety One paise Only
2.015	18.69.1 - Providing and laying D.I Specials of Class K - 12 suitable for mechanical jointing as per IS : 9523 :Upto 600 mm dia	2.160	quintal	22071.58	47674.61	Rupees Forty Seven Thousand Six Hundred Seventy Four And Sixty One paise Only
2.016	100.31.1.5 - Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubber insertions etc., complete, but excluding the cost of the valve (tail pieces, if required, will be paid separately): 200mm diameter, Class I.	1.000	no	1625.85	1625.85	Rupees One Thousand Six Hundred Twenty Five And Eighty Five paise Only
2.017	100.32.2 - Conveying and fixing C. I. Single Acting Air Valve of approved quality with bolts, nuts, rubber insertions etc., complete, but excluding the cost of air valve (tail pieces, if required, will be paid separately): 40mm Single Acting Air Valve.	8.000	no	184.44	1475.52	Rupees One Thousand Four Hundred Seventy Five And Fifty Two paise Only
2.018	100.37.7.1 - In situ fabrication of M.S. pipes of size 200mm (I.D.) using 8mm thick M.S. plate including cost and conveyance charges of M.S. plate, all fabrication charges, charges of painting the steel work with two or more coat deluxe multi surface paint to give an even shade over an under-coat of primer etc., complete.	24.000	metre	6165.53	147972.72	Rupees One Lakh Forty Seven Thousand Nine Hundred Seventy Two And Seventy Two paise Only
2.019	100.37.7.2 - Fabricating M.S. flanges of diameter 200mm using 12mm thick M.S. plate including cost and conveyance charges of M.S. plate, all fabrication charges, charges of painting the steel work with two or more coat deluxe multi surface paint to give an even shade over an under-coat of primer etc., complete: For pipes fabricated with 8mm thick M.S. plates.	6.000	no	2081.10	12486.60	Rupees Twelve Thousand Four Hundred Eighty Six And Sixty Zero paise Only
2.020	100.37.7.3 - Cutting 200mm (I.D.) M.S. pipes for making bends and other specials by gas cutting including cost of gas, all labour and hire	12.000	no	223.11	2677.32	Rupees Two Thousand Six Hundred Seventy Seven And Thirty Two

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.					paise Only
2.021	100.37.7.4 - Welding 200mm (I.D.) M.S. pipes for making bends and other specials by gas/electric welding machine including cost of gas and welding rods, all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.	12.000	no	843.32	10119.84	Rupees Ten Thousand One Hundred Nineteen And Eighty Four paise Only
2.022	100.37.7.5 - Grinding cut and weld edges of 200mm (I.D.) M.S. pipes during fabrication work including all labour and hire charges of tools etc., complete: For pipes fabricated with 8mm thick M.S. plates.	24.000	no	158.40	3801.60	Rupees Three Thousand Eight Hundred One And Sixty Zero paise Only
3	Construction of valve chamber & anchor blocks					
3.001	2.6.1 - Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including 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	3.840	cum	223.41	857.89	Rupees Eight Hundred Fifty Seven And Eighty Nine paise Only
3.002	4.1.3 - Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	11.056	cum	8340.91	92217.10	Rupees Ninety Two Thousand Two Hundred Seventeen And Ten paise Only
3.003	5.1.2 - 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)	2.151	cum	9483.13	20398.21	Rupees Twenty Thousand Three Hundred Ninety Eight And Twenty One paise Only
3.004	5.9.2 - Centering and shuttering including strutting, etc. and removal of form for:Walls (any thickness) including attached pilasters,	82.900	sqm	748.62	62060.60	Rupees Sixty Two Thousand Zero Sixty Zero And Sixty Zero paise Only

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	butteresses, plinth and string courses etc.					
3.005	5.9.3 - Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform	1.500	sqm	851.49	1277.24	Rupees One Thousand Two Hundred Seventy Seven And Twenty Four paise Only
3.006	5.22.6 - 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	345.060	kilogram	102.61	35406.61	Rupees Thirty Five Thousand Four Hundred Six And Sixty One paise Only
4	Road restoration charges PWD/SH/NH					
4.001	3.6 - Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location within all lifts and lead upto 1000m	362.000	cum	48.79	17661.98	Rupees Seventeen Thousand Six Hundred Sixty One And Ninety Eight paise Only
4.002	4.2.A.1 - 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	298.400	cum	3020.00	901168.00	Rupees Nine Lakh One Thousand One Hundred Sixty Eight Only
4.003	4.12 - 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.	10.400	cum	3037.00	31584.80	Rupees Thirty One Thousand Five Hundred Eighty Four And Eighty Zero paise Only

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
4.004	5.1.a - 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 - 1.0 kg/sqm using mechanical means.	97.500	sqm	61.55	6001.13	Rupees Six Thousand Zero One And Thirteen paise Only
4.005	5.2.b - Providing and applying tack coat with bitumen emulsion (RS) using emulsion pressure distributor at the rate of 0.25 - 0.30 kg per sqm on the prepared Granular Surface cleaned with mechanical broom.	97.500	sqm	14.05	1369.88	Rupees One Thousand Three Hundred Sixty Nine And Eighty Eight paise Only
4.006	5.3.2.a - Providing and laying bituminous macadam with 80-100 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with a bituminous binder (VG 30), transported to the site, laid over a previously prepared surface with paver finisher to the required grade, level, and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction For Grading II - (19 mm nominal size)	4.875	cum	7703.00	37552.13	Rupees Thirty Seven Thousand Five Hundred Fifty Two And Thirteen paise Only
4.007	5.6.2.a - Providing and laying bituminous concrete with 80-100 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with a bituminous binder (NRMB) @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level, and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects For Grading - II (13.2 mm Nominal Size)	2.925	cum	11726.00	34298.55	Rupees Thirty Four Thousand Two Hundred Ninety Eight And Fifty Five paise Only
4.008	5.8.a - Providing and laying surface dressing as wearing course in single coat using crushed stone aggregates of	25.000	sqm	109.04	2726.00	Rupees Two Thousand Seven Hundred Twenty Six

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	specified size on a layer of bituminous binder (VG 30) laid on the prepared surface and rolling with 8-10 tonne smooth wheeled steel roller. Grading I - 19 mm nominal chipping size					Only
4.009	12.4 - Plain cement concrete 1:3:6 nominal mix in foundation with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days.	32.000	cum	6718.30	214985.60	Rupees Two Lakh Fourteen Thousand Nine Hundred Eighty Five And Sixty Zero paise Only
4.010	12.8.B.1 - Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications PCC Grade M20	10.000	cum	8377.76	83777.60	Rupees Eighty Three Thousand Seven Hundred Seventy Seven And Sixty Zero paise Only
5	Road Restoration Charges LSGD					
5.001	3.5.3 - Excavation in Soil using Hydraulic Excavator and Tipplers with disposal upto 1000 m Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tipplers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross-sections, and transporting to the embankment location with a lift upto 1.5 m and lead upto 1000 m as per Technical Specification Clause 302.3	201.000	cum	37.83	7603.83	Rupees Seven Thousand Six Hundred Three And Eighty Three paise Only
5.002	4.1.A.1 - Granular Sub-base with Well Graded Material (Table 400.1) (A) By Mix in Place Method Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401. (i) For Grading I Material	108.000	cum	2815.00	304020.00	Rupees Three Lakh Four Thousand Zero Twenty Only
5.003	4.9 - Wet Mix Macadam Providing, laying, spreading and compacting graded stone	48.000	cum	3182.00	152736.00	Rupees One Lakh Fifty Two Thousand

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mixer (Pug Mill), carriage of mixed material by tipper to site, laying in uniform layers in sub-base/base course on a well prepared sub-base and compacting with smooth wheel roller of 80 to 100kN weight to achieve the desired density including lighting, barricading and maintenance of diversion, etc as per Tables 400.11 & 400.12 and Technical Specification Clause 406. By Mechanical Means with 1 km lead					Seven Hundred Thirty Six Only
5.004	5.1.1a - 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	400.000	sqm	74.09	29636.00	Rupees Twenty Nine Thousand Six Hundred Thirty Six Only
5.005	5.2.3a - 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.	400.000	sqm	15.63	6252.00	Rupees Six Thousand Two Hundred Fifty Two Only
5.006	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 20 mm 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	400.000	sqm	182.00	72800.00	Rupees Seventy Two Thousand Eight Hundred Zero Only

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	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)					
5.007	5.12.A.3.2a - 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 : Type C (II) Bitumen (S-65)	400.000	sqm	85.09	34036.00	Rupees Thirty Four Thousand Zero Thirty Six Only
5.008	11.4.3.1 - Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 III. P.C.C. grade M 20 (i) Nominal mix (1:2:4)	45.000	cum	7770.00	349650.00	Rupees Three Lakh Forty Nine Thousand Six Hundred Fifty Zero Only
6	Construction of steel storage tank at Kuruvilacity					
6.001	2.31 - Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared	81.000	sqm	15.00	1215.00	Rupees One Thousand Two Hundred Fifteen Only
6.002	2.6.1 - Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including 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	64.454	cum	223.41	14399.67	Rupees Fourteen Thousand Three Hundred Ninety Nine And Sixty Seven paise Only
6.003	4.1.8 - 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)	1.646	cum	7113.43	11708.71	Rupees Eleven Thousand Seven Hundred Eight And Seventy One paise Only

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
6.004	5.2.2 - Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level excluding cost of centering, shuttering, finishing and reinforcement :1:1.5:3(1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	3.704	cum	11433.90	42351.17	Rupees Forty Two Thousand Three Hundred Fifty One And Seventeen paise Only
6.005	5.9.3 - Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform	16.464	sqm	851.49	14018.93	Rupees Fourteen Thousand Zero Eighteen And Ninety Three paise Only
6.006	5.22.6 - 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	444.480	kilogram	102.61	45608.09	Rupees Forty Five Thousand Six Hundred Eight And Nine paise Only
6.007	OD124210/2022-2023 - Supply of Sand including loading, unloading, transportation and other incidental charges as per the direction of departmental officers.1	6.806	cum	1882.79	12814.27	Rupees Twelve Thousand Eight Hundred Fourteen And Twenty Seven paise Only
6.008	OD124236/2022-2023 - Supply, installation and commissioning of a pre-engineered, pre-fabricated, factory manufactured steel storage Water Tank having a capacity of 1.52 LL(1Nos.) thickness of 0.6 mm, in multiple layers as required for the capacity and height of the tank and multiple layered PE sheet/membrane for the inner containment liner. The Tank Shell / Body the Liner material shall be manufactured in a facility certified and compliant to ISO 9001 - 2000 standards. The Tank shall be supplied with access points, penetrations for inlets,	152000.000	Litre	9.06	1377120.00	Rupees Thirteen Lakh Seventy Seven Thousand One Hundred Twenty Only

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
	<p>outlets, drains and fittings, overflow and drain, high and low water level indicators. All connections to the tanks shall be with flanged or threaded nozzles, placed to the KWA water mains</p> <p>TANK ROOF :The roof of the tank shall be of corrugated Galvalume sheet steel and shall be domed, with heavy- duty Hot-dip Galvanized truss frame for support, and capable of supporting 4-5 persons for maintenance and cleaning and tank shall have an access hatch with cover, on the roof, for operation and Maintenance</p> <p>TANK COVER :Tank covers shall be of approved galvanized vermin proof construction. Roof ends shall be fitted with suitable vermin-proofing tape or other material, to prevent ingress of dust and foreign objects. Covers shall be firmly fixed to the top edge of the tank with galvanized bolts and nuts.</p> <p>LADDERS :Tanks shall be provided with Hotdip Galvanized ladders internally or externally. External roof supports shall be of an appropriately designed Hot-dip galvanized Steel construction. Tanks shall comply with relevant spill level, air gap and overflow requirements relative to Effective Capacity. All nuts and bolts used for the panels shall be a minimum of 12mm size and hot-dip galvanized/Case hardened.</p> <p>The tank shall have a circular angle fixed around the total circumference of the tanks,</p>					

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	<p>at the top, of minimum 2 mm thickness. Tanks shall be properly flushed out with clean water prior to being brought into service TANK DIMENSIONS: The dimensions of the Tank shall be of 5.826 m in diameter and 5.7 m in height DESIGN LIFE: The tanks shall have a design life of 40 years. TANK CONNECTIONS: Standard design valve outlet connection : i) Suitable Flanged valve ii) Overflow connection including an Internal approved bell-mouth shaped bends to maximize the overflow capacity. One no. 100 mm, iii) One (1) scour drain outlet from the floor of the tank with isolation valve. One No. 100 mm. TANK LINERS: Tank liners shall be purpose designed and manufactured and shall comply to AS/NZS 4020 (Appendix A) of 2005 and ANSI/NSF 61 - 2008, Section 5 Certificates of compliance to above standards shall be furnished by the manufacturer of the tanks. Tank liners shall: i) Be factory manufactured to one piece construction, fabricated from multi-layer PE sheet, certified for potable drinking water, to (ANSI/ NSF 61) and duly UV Stabilized. ii) Be of PE (polyethylene) in multi-layer construction for strength, reinforced with woven scrim industrial fabric to prevent elongation and enhance tensile strength. The total liner material thickness shall be no less than 0.6 mm thick. The tensile strength shall not be less than 2266 N (warp) and 2495 N (weft) and heat sealing strength of 2056 N v) All the liner</p>					

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	<p>welded lap joints shall be strengthened with Metalocene encapsulating tape welded over the overlap. vi) The Metalocene tape shall cover and protect the exposed material at the edges of the liner joints to further prevent the ingress of water into the scrim. vii) Liners shall be positively and continuously attached to the top outer edge of the circumference of the tank to prevent entry of water from the runoff from the roof structure. viii) All liners on tanks over 2m in height shall have a continuous intermediate liner support designed out of nylon (or other material) cord, around the circumference of the tank, at vertical intervals corresponding to the level of each ring. ix) The intermediate liner support cords shall be firmly secured to the steel shell at each level, to prevent stress on the liner welded joints, and thereby eliminate possibility of failure</p> <p>C O R R O S S I O N PROTECTION. The tank structure shall have a secondary corrosion protection system using sacrificial magnesium anodes. The number of anodes, their location around the tank and the mass of each anode shall be designed for anode replacement frequency of five years. The anodes shall be installed external to the tank and concrete apron with their location marked with a suitably label-Cost for Tank steel with 10years guarantee includes shel l,Steel wall,steel domed roof,Zinc Alum steel&amp;39;,Cost for</p>					

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	Poly ethylene infinity liner ,Geo synthetic Fibre with food grade plastics are used for inside coating and Support Arrangements, Cost for Fabricated items, attachments and accessories like steel ladder, Cost of Fabricated nozzles, over flow nozzles and drain arrangements, Cost for HDG nut and bolts , Freight Charges, Erection Installation and commissioning of tank components.					
7	Demolition of existing GLSR at Kuruvilacity					
7.001	15.9.2 - Demolishing stone rubble masonry manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer -in-Charge: In cement mortar	22.995	cum	2000.00	45990.00	Rupees Forty Five Thousand Nine Hundred Ninety Zero Only
7.002	15.2.2 - Demolishing cement concrete manually / by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in-Charge. Nominal concrete 1:4:8 leaner mix (including equivalent design mix)	9.198	cum	1200.00	11037.60	Rupees Eleven Thousand Zero Thirty Seven And Sixty Zero paise Only
7.003	15.60 - Disposal of building rubbish/ malba/ similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved	22.995	cum	165.00	3794.18	Rupees Three Thousand Seven Hundred Ninety Four And Eighteen paise Only
7.004	15.58 - Demolishing R.C.C. work by mechanical means and stockpiling at designated locations and disposal of dismantled materials up to a lead of 1 kilometre, stacking serviceable and unserviceable material separately including cutting reinforcement bars.	26.306	cum	2500.00	65765.00	Rupees Sixty Five Thousand Seven Hundred Sixty Five Only
8	Renovation of existing tank in kuruvilacity					

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
8.001	2.31 - Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared	79.763	sqm	15.40	1228.35	Rupees One Thousand Two Hundred Twenty Eight And Thirty Five paise Only
8.002	14.78 - Cleaning of under ground sump, Over Head R.C.C. Tank (independent staging) including disposal of slit and rubbish, all as per direction of Engineer-in-Charge. The cleaning shall consist following operations:- (i) Tank shall be emptied of water by pumping & bottom shall be cleaned of slit and other deposits. (ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water. (iii) Chlorination of RCC internal surface by liquid chlorine. (iv) The treated surface shall be dried using air jetting and all loose particles shall be removal from the surface. (v) Finally the surface shall be treated with ultraviolet radiation etc. as per direction of Engineer-in-Charge.	162.810	sqm	78.27	12743.14	Rupees Twelve Thousand Seven Hundred Forty Three And Fourteen paise Only
8.003	15.3 - 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.	1.104	cum	3114.33	3438.22	Rupees Three Thousand Four Hundred Thirty Eight And Twenty Two paise Only
8.004	5.21 - Extra for providing and fixing expanded metal mesh of size 20x60 mm and strands 3.25 mm wide 1.6 mm thick weighing 3.64 kg per sqm for encasing or rolled steel sections in beams, columns and grillages excluding cost of hangers.	162.810	sqm	530.00	86289.30	Rupees Eighty Six Thousand Two Hundred Eighty Nine And Thirty Zero paise Only
8.005	5.9.2 - Centering and shuttering including strutting, etc. and removal of form for: Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	96.300	sqm	748.62	72092.11	Rupees Seventy Two Thousand Zero Ninety Two And Eleven paise Only

SI No	Description of work	No. or Qty.	Unit	Accepted Rate	TOTAL AMOUNT	TOTAL AMOUNT in words
8.006	5.33.2 - Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately. All work above plinth level upto floor V level	13.211	cum	10395.00	137328.35	Rupees One Lakh Thirty Seven Thousand Three Hundred Twenty Eight And Thirty Five paise Only
8.007	5.34.1 - Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable/ recoverable separately. Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum).	13.211	cum	85.68	1131.92	Rupees One Thousand One Hundred Thirty One And Ninety Two paise Only
8.008	13.4.1 - 12 mm cement plaster of mix:1:4 (1 cement : 4 coarse sand)	96.300	sqm	339.28	32672.66	Rupees Thirty Two Thousand Six Hundred Seventy Two And Sixty Six paise Only
8.009	22.22 - Providing and mixing integral crystalline admixture for waterproofing treatment to RCC structures like basement raft, retaining walls, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc.. at the time of transporting of concrete into the drum of the ready-mix truck , using integral crystalline admixture @0.80% (minimum) to the weight of cement content per cubic meter of concrete) or	35.000	kg	475.72	16650.20	Rupees Sixteen Thousand Six Hundred Fifty Zero And Twenty Zero paise Only

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	higher as recommended by the manufacturer's specification in reinforced cement concrete at site of work. 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. The crystalline admixture shall be capable of self-healing 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.					
8.010	13.43.1 - Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer	96.300	sqm	73.75	7102.13	Rupees Seven Thousand One Hundred Two And Thirteen paise Only
8.011	14.1.1 - Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground within 50 meters lead:With cement mortar 1:4 (1 cement : fine sand)	30.600	sqm	513.36	15708.82	Rupees Fifteen Thousand Seven Hundred Eight And Eighty Two paise Only
8.012	13.44.1 - Finishing walls with water proofing cement paint of required shade:New work (Two or more coats applied @ 3.84 kg/10 sqm)	51.600	sqm	112.08	5783.33	Rupees Five Thousand Seven Hundred Eighty Three And Thirty Three paise Only
8.013	13.71 - Lettering with black Japan pint of approved brand and manufacture	150.000	per Letter per cm height	5.82	873.00	Rupees Eight Hundred Seventy Three Only

The above work awarded to the contractor SAMEERALI CHAKKINGALTHODI,EEFPS1687C, at his quoted rate for individual items at a total accepted PAC 15535752(One Crore Fifty Five Lakh Thirty Five Thousand Seven Hundred and Fifty Two Only) as per the condition of the contract.

