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CA 738347

AGREEMENT NO. 176/ KIIDC/2018-19 DATED 15-02-2019

CONTRACT AGREEMENT entered into on this 15th day of February Two Thousand Nineteen between M/s T.B.A.S. Constructions, Kizhakkedath Building, No. VI/6.17D, Kunjattukara, Edathala P. O., Aluva - 683 561, (hereinafter called the Contractor) on the one part and the Managing Director, Kerala Irrigation Infrastructure Development corporation Limited, Kumarapuram, Medical College P.O., Thiruvananthapuram -695 011, for and on behalf of the Company (hereinafter called the Company) on the other part for the work "Modernizing Water Transport in Alappuzha Canals - Phase I (Appendix A, Appendix B, Appendix C, Appendix D and Appendix E)" by the former as per accompanying agreement, accepted tender with conditions of contract, plans, accepted schedule with specifications approved by Managing Director, Kerala Irrigation Infrastructure Development corporation Limited, Kumarapuram, Medical College P.O., Thiruvananthapuram - 695 011, which form part of this agreement.

Contractor

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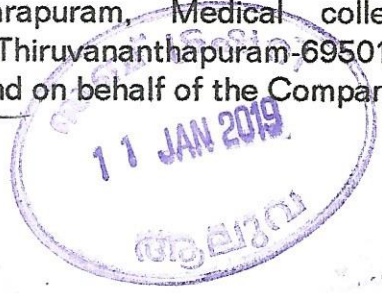
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 Managing Director
 Kerala Irrigation Infrastructure Development Corporation Ltd.
 Thiruvananthapuram - 695011
 Development Corporation Limited
 Kumarapuram, Medical college P.O., Thiruvananthapuram -695011.
 for and on behalf of the Company)

No. 34223 Date 14/1/2019 Rs. 1000000

linked with No. from T.B. P. P. 683561

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Remitha Mol R.
 Stamp Vendor, Aluva





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CA 738349

Signed and delivered by the above mentioned M/s T.B.A.S. Constructions, Kizhakkedath Building, No. VI/6.17D, Kunjattukara, Edathala P. O., Aluva - 683 561.

Contractor

In the presence of:-



[Signature]

1. Shihelo *[Signature]*
2. Ajimon *[Signature]*

Signed and delivered by Smt. S. Rema, Managing Director, Kerala Irrigation Infrastructure Development Corporation Limited, Kumarapuram, Medical College P.O., Thiruvananthapuram -695 011, for and on behalf of the Company.

[Signature]

Managing Director
 Managing Director, Kerala Irrigation Infrastructure Development Corporation Limited,
 Kerala Irrigation Infrastructure Development Corporation Limited, Kumarapuram, Medical College P.O., Thiruvananthapuram -695011
 (for and on behalf of the Company)

In the presence of:-

1. Kumar's *[Signature]*
 34725 14/1/2019 100
 No.....Date.....Rs.....

2. Ancy Samuel *[Signature]*
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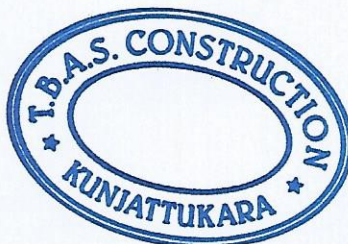
[Signature]
 Remitha Mol R.
 Stamp Vendor, Aluva



MEMORANDUM OF WORK TENDERED

Name of work	"Modernizing Water Transport in Alappuzha Canals – Phase I (Appendix A, Appendix B, Appendix C, Appendix D and Appendix E)"
Estimate P.A.C	Rs. 38,98,32,121/-
Contract P.A.C	Rs. 44,36,23,015.10 /-
Date of starting	From the date of handing over the site
Date of completion	12 months from the date of handing over the site
Performance Guarantee	Treasury fixed deposit for Rs. 1,10,90,575/- JK No. 427425/799010500627167 dated 14.02.2019 for 1 year 8 months. Bank Guarantee from The Federal Bank Ltd. Pukkattupady Branch vide IBG No. IBG 94467 dated 11.02.2019 for Rs. 1,10,90,575/- valid upto 08-09-2020.
Additional Performance Guarantee	Bank Guarantee from The Federal Bank Ltd. Pukkattupady Branch vide IBG No. IBG 94543 dated 13.02.2019 for Rs. 1,48,91,513/- valid upto 01.04.2020. Bank Guarantee from The Federal Bank Ltd. Pukkattupady Branch vide IBG No. IBG 94471 dated 11.02.2019 for Rs. 1,48,91,513/- valid upto 10.03.2020.

Contractor



Managing Director.
KIIDC Limited



Managing Director
Kerala Irrigation Infrastructure
Development Corporation Ltd.
Thiruvananthapuram - 695011

Validate

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Item Wise BoQ

Tender Inviting Authority: Kerala Irrigation Infrastructure Development Corporation

Name of Work: Modernizing Water Transport in Alappuzha Canals - Phase I (Appendix A, Appendix B, Appendix C, Appendix D and Appendix E)

Contract No: KIIDC/Z20/2017-18

Name of the Bidder/ Bidding Firm / Company : M/s TBAS Construction & Marymatha Construction Company

PRICE SCHEDULE

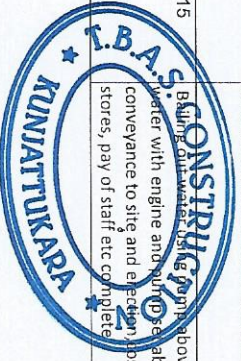
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

NUMBER #	TEXT #	Item Description	TEXT #	Item Code / Make	NUMBER #	Quantity	TEXT #	Units	NUMBER #	BASIC RATE in Figures To be entered by the Bidder in Rs. P	NUMBER #	TOTAL AMOUNT Without Taxes in Rs. P	TEXT #	TOTAL AMOUNT In Words
1	2	Appendix-A- Main Canals Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and sapplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to outside the periphery of the area cleared	3		4	197700	5	m2	13	5.00	53	988500.00	55	INR Nine Lakh Eighty Eight Thousand Five Hundred Only
2		Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material. Beyond 30 cm girth up to and including 60 cm girth	Item1			1714	Each			1500.00		2571000.00		INR Twenty Five Lakh Seventy One Thousand Only
3		RING BUND Type II Putting up ring bund with earth fillle gunny bags of top width 1.0m bottom width 2.0m height 2.0 m side and filling in between with earth to form ring bund and maintaining the same leak proof till the completion of the work and clearing the site by dismantling the bund after completion of the work.etc.complete.	Item2			3338	m			2000.00		6676000.00		INR Sixty Six Lakh Seventy Six Thousand Only
4		Bailing out water using pump above 5 HP and Up to 10 HP-Bailing out water with engine and pump set above 5HP and up to 10HP, including conveyance and erection, cost of fuel, lubrication oil and other accessories complete	Item3			53024	HR			150.00		7953600.00		INR Seventy Nine Lakh Fifty Three Thousand Six Hundred Only
5		CONSTRUCTION OF CONCRETE DR. Discharge of debris clearing away and carefully stacking materials useful for reuse to a thickness of walls in DR masonry including disposal of debris within a distance of 150m.	Item5			504	m3			400.00		201600.00		INR Two Lakh One Thousand Six Hundred Only



Managing Director
Kerala Irrigation Infrastructure
Development Corporation Ltd.

6	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	Item 6	1200	m3	360.00	432000.00	INR Four Lakh Thirty Two Thousand Only
7	DR PACKING Under foundation - Dry stone packing under foundation with good quality blasted rubble including conveyance of material and labour charges etc. complete as per direction of departmental officers at site.	Item 7	2944	m3	2500.00	7360000.00	INR Seventy Three Lakh Sixty Thousand Only
8	DRY RUBBLE MASONRY - Dry rubble without concrete levelling course masonry with good quality blasted rubble including packing to compactness to lines and levels cost and conveyance of all materials labour charges etc. complete as per direction of Departmental officers at site	Item 8	2100	m3	4000.00	8400000.00	INR Eighty Four Lakh Only
9	DR with Departmental. Stone - DRY RUBBLE MASONRY - Dry rubble without concrete levelling course using departmental rubble including packing to compactness to lines and levels, labour charges etc. complete as per direction of Departmental officers at site	Item 9	403.08	m3	2200.00	886776.00	INR Eight Lakh Eighty Six Thousand Seven Hundred & Seventy Six Only
10	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth level with cement mortar 1:6 (1 cement : 6 coarse sand)	Item 10	799.2	m3	6000.00	4795200.00	INR Forty Seven Lakh Nirely Five Thousand Two Hundred Only
11	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 : 4 graded stone aggregate 20 mm nominal size)	Item 11	120	m3	10500.00	1260000.00	INR Twelve Lakh Sixty Thousand Only
12	Appendix-B- Branch Thodu in Alappuzha Municipality-97 Nos-111.14km 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	Item 12	222280	m2	5.00	1111400.00	INR Eleven Lakh Eleven Thousand Four Hundred Only
13	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material. Beyond 30 cm girth up to and including 60 cm girth	Item 13	2500	Each	1500.00	3750000.00	INR Thirty Seven Lakh Fifty Thousand Only
14	RING BUND Type-I-Putting up ring bund as per approved shape 2.5m bottom width, 1m top width using empty gunny/polythene bags filled with earth placed in 2 rows at 0.6m apart and filled in between with puddle clay to form bund for an average height 2.00m including labour dismantling the bund after completion of the work etc. complete.	Item 14	1783	m	2000.00	3566000.00	INR Thirty Five Lakh Sixty Six Thousand Only
15	Bailing out water using pumps above 5 HP and up to 10 HP-Bailing out water with engine and pump above 5HP and up to 10HP, including conveyance to site and erection of cost of fuel, lubrication oil and other stores, pay of staff etc complete	Item 15	8000	HR	150.00	1200000.00	INR Twelve Lakh Only

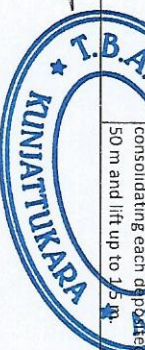


Managing Director
 Kerala Irrigation Infrastructure Development Corporation Ltd.

16	DISMANTLING DR - Dismantling , clearing away and carefully stacking materials useful for reuse for a thickness of walls in DR masonry including disposal of debris within a distance of 150m.	Item16	2100	m3	400.00	840000.00	INR Eight Lakh Forty Thousand Only
17	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	Item17	4400	m3	360.00	1584000.00	INR Fifteen Lakh Eighty Four Thousand Only
18	DR PACKING Under foundation - Dry stone packing under foundation with good quality blasted rubble including conveyance of material and labour charges etc. complete as per direction of departmental officers at site.	Item18	10902.5	m3	2500.00	27256250.00	INR Two Crore Seventy Two Lakh Fifty Six Thousand Two Hundred & Fifty Only
19	DRY RUBBLE MASONRY - Dry rubble without concrete levelling course masonry with good quality blasted rubble including packing to compactness to lines and levels cost and conveyance of all materials labour charges etc. complete as per direction of Departmental officers at site	Item19	6492.75	m3	4000.00	25971000.00	INR Two Crore Fifty Nine Lakh Seventy One Thousand Only
20	DR with Departmental. Stone - DRY RUBBLE MASONRY - Dry rubble without concrete levelling course using departmental rubble including packing to compactness to lines and levels, labour charges etc. complete as per direction of Departmental officers at site	Item20	1408	m3	2200.00	3097600.00	INR Thirty Lakh Ninety Seven Thousand Six Hundred Only
21	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth level with:Cement mortar 1:6 (1 cement : 6 coarse sand)	Item21	3217.5	m3	6000.00	19305000.00	INR One Crore Ninety Three Lakh Five Thousand Only
22	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 : 4 graded stone aggregate 20 mm nominal size)	Item22	487.5	m3	10500.00	5118750.00	INR Fifty One Lakh Eighteen Thousand Seven Hundred & Fifty Only
23	Appendix-C-4 nos box bridge across AS Canal and 1 in Smrithivaram RING BUND Type II Putting up ring bund with earth fill gunny bags of top width 1.0m bottom width 2.0m height 2.0 m side and filling in between with earth to form ring bund and maintaining the same leak proof till the completion of the work and clearing the site by dismantling the bund after completion of the work,etc,complete.	Item23	170	m	2000.00	340000.00	INR Three Lakh Forty Thousand Only
24	Bailing out water Using SHP Pump- Bailing out water with SHP engine and pump set including conveyance to site and erection,cost of fuel, lubrication oil and other stores, pay of staff etc complete	Item24	1250	Hr	150.00	187500.00	INR One Lakh Eighty Seven Thousand Five Hundred Only
25	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	Item25	1004.289	m3	360.00	361544.04	INR Three Lakh Sixty One Thousand Five Hundred & Forty Four and Paise Four Only
26	CONCRETE WORK - All kinds of soil Raising and stacking well matured straight coconut post for driving Now through various strata below bed level including labour charges etc complete.	Item26	3015	m	200.00	603000.00	INR Six Lakh Three Thousand Only



27	Coconut Pile - Driving down coconut pile to lines and levels through various strata including all hire charges and labour for fixing, staging platform and all other appliances necessary for pile driving down after pointing the bottom end	1tem27	2680	m	1100.00	2948000.00	INR Twenty Nine Lakh Forty Eight Thousand Only
28	DR PACKING Under foundation - Dry stone packing under foundation with good quality blasted rubble including conveyance of material and labour charges etc. complete as per direction of departmental officers at site.	1tem28	791.625	m3	2500.00	1979062.50	INR Nineteen Lakh Seventy Nine Thousand & Sixty Two and Paise Fifty Only
29	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)	1tem29	169.125	m3	8500.00	1437562.50	INR Fourteen Lakh Thirty Seven Thousand Five Hundred & Sixty Two and Paise Fifty Only
30	Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete	1tem30	536.8	m2	500.00	268400.00	INR Two Lakh Sixty Eight Thousand Four Hundred Only
31	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)	1tem31	522.353	m3	11000.00	5745883.00	INR Fifty Seven Lakh Forty Five Thousand Eight Hundred & Eighty Two and Paise One Hundred Only
32	Centering and shuttering including strutting, etc. and removal of form for:Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	1tem32	633.75	m2	600.00	380250.00	INR Three Lakh Eighty Thousand Two Hundred & Fifty Only
33	Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform	1tem33	469.05	m2	700.00	328335.00	INR Three Lakh Twenty Eight Thousand Three Hundred & Thirty Five Only
34	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars	1tem34	62640	kg	88.00	5512320.00	INR Fifty Five Lakh Twelve Thousand Three Hundred & Twenty Only
35	DRY RUBBLE MASONRY - Dry rubble without concrete leveling course masonry with good quality blasted rubble including packing to compactness to lines and levels cost and conveyance of all materials labour charges etc. complete as per direction of Departmental officers at site	1tem35	1031.775	m3	4000.00	4127100.00	INR Forty One Lakh Twenty Seven Thousand One Hundred Only
36	Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at window sills, ceiling level and the like.Cement mortar 1:6 (1 cement : 6 coarse sand)	1tem36	205.879	m3	6000.00	1235274.00	INR Twelve Lakh Thirty Five Thousand Two Hundred & Seventy Four Only
37	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 : 4 graded stone aggregate 20 mm nominal size)	1tem37	22.5	m3	10500.00	236250.00	INR Two Lakh Thirty Six Thousand Two Hundred & Fifty Only
38	EARLY WORK FILLING - Supplying contractors own earth including cost of observation and laying and filling (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.	1tem38	1875	m3	1600.00	3000000.00	INR Thirty Lakh Only



Managing Director
Kerala Irrigation Infrastructure Development Corporation Ltd.
05/01/14

39	Appendix-D-10 nos Three box bridge across A 5 Canal 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	Item 39	3326.086	m ³	360.00	1197390.96	INR Eleven Lakh Ninety Seven Thousand Three Hundred & Ninety and Paise Ninety Six Only
40	RING BOUND Type II Putting up ring bund with earth fill gunny bags of top width 1.0m bottom width 2.0m height 2.0 m side and filling in between with earth to form ring bund and maintaining the same leak proof till the completion of the work and clearing the site by dismantling the bund after completion of the work etc complete.	Item 40	300	m	2000.00	600000.00	INR Six Lakh Only
41	Bailing out water Using SHP Pump- Bailing out water with SHP engine and pump set including conveyance to site and erection, cost of fuel, lubrication oil and other stores, pay of staff etc complete	Item 41	2500	Hr	150.00	375000.00	INR Three Lakh Seventy Five Thousand Only
42	Coconut Pile - Supplying and stacking well matured straight coconut post for driving down through various strata below bed level including cost conveyance labour charges etc complete.	Item 42	5220	m	200.00	1044000.00	INR Ten Lakh Forty Four Thousand Only
43	DR PACKING Under foundation - Dry stone packing under foundation with good quality blasted rubble including conveyance of material and labour charges etc. complete as per direction of departmental officers at site.	Item 43	1422.651	m ³	2500.00	3556627.50	INR Thirty Five Lakh Fifty Six Thousand Six Hundred & Twenty Seven and Paise Fifty Only
44	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)	Item 44	270.651	m ³	8500.00	2300533.50	INR Twenty Three Lakh Five Hundred & Thirty Three and Paise Fifty Only
45	Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete	Item 45	526.8	m ²	500.00	263400.00	INR Two Lakh Sixty Three Thousand Four Hundred Only
46	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)	Item 46	1301.406	m ³	13000.00	16918278.00	INR One Crore Sixty Nine Lakh Eighteen Thousand Two Hundred & Seventy Eight Only
47	Centering and shuttering including strutting, etc. and removal of form for: Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Item 47	1190.1	m ²	600.00	714060.00	INR Seven Lakh Fourteen Thousand & Sixty Only
48	Centering and shuttering including strutting, etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform	Item 48	413.55	m ²	700.00	289485.00	INR Two Lakh Eighty Nine Thousand Four Hundred & Eighty Five Only
49	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars	Item 49	156175.2	kg	88.00	13743417.60	INR One Crore Thirty Seven Lakh Forty Three Thousand Four Hundred & Seventeen and Paise Sixty Only
50	DRY RUBBLE MASONRY - Dry rubble without concrete levelling course finished with good quality blasted rubble including packing to compactness to the top and levels cost and conveyance of all materials labour charges etc. complete as per direction of Departmental officers at site	Item 50	2064.811	m ³	3500.00	7226838.50	INR Seventy Two Lakh Twenty Six Thousand Eight Hundred & Thirty Eight and Paise Fifty Only



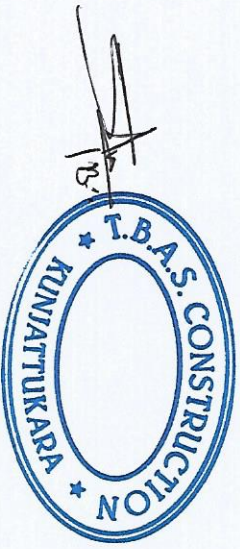
Managing Director
Kerala Irrigation Infrastructure Development Corporation Ltd.
695014


51	Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at window sills, ceiling level and the like. Cement mortar 1:6 (1 cement : 6 coarse sand)	Item 51	411.75	m3	6000.00	2470500.00	INR Twenty Four Lakh Seventy Thousand Five Hundred Only
52	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 : 4 graded stone aggregate 20 mm nominal size)	Item 52	45	m3	11500.00	517500.00	INR Five Lakh Seventeen Thousand Five Hundred Only
53	EARTH WORK FILLING- Supplying contractors own earth including cost of conveyance and royalty and filling (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.	Item 53	1312.5	m3	1600.00	2100000.00	INR Twenty One Lakh Only
54	Appendix E - Canal cleaning works Earth work in ordinary soil for removing the root zone of small trees of girth up to 30cm. Including rooting out and removal of rubbish(SI.No.56) (not reusable)	Item 53	1080	m3	550.00	594000.00	INR Five Lakh Ninety Four Thousand Only
55	Cement concrete 1:1.5:3 by using 20mm nominal size broken stones including all hire of formwork, watering, curing for pre cast piles, pre cast slabs casting at contractors own yard etc. complete. - PRECAST PILES	Item 54	533.741	m3	17000.00	9073597.00	INR Ninety Lakh Seventy Three Thousand Five Hundred & Ninety Seven Only
56	Cement concrete 1:1.5:3 by using 20mm nominal size broken stones including all hire of formwork, watering, curing for pre cast piles, pre cast slabs casting at contractors own yard etc. complete. - SLABS	Item 55	311.85	m3	14500.00	4521825.00	INR Forty Five Lakh Twenty One Thousand Eight Hundred & Twenty Five Only
57	Reinforcement for R.C.C work, bent, tied and placed in position using TMT steel including cost and conveyance of materials labour charges etc. complete for pre cast slabs and piles, anchor block, anchor beams, tie beams etc. complete.(SI.No.130a)	Item 56	1060.051	QH	8700.00	9222443.70	INR Ninety Two Lakh Twenty Two Thousand Four Hundred & Forty Three and Paise Seventy Only
58	Hire and labour charges for 1st class country boat with two boat men for arranging working platform during pile driving.	Item 57	90	Day	2000.00	180000.00	INR One Lakh Eighty Thousand Only
59	Conveying R.C.C. Piles 300mm square 5.30m length from the place of casting to the site including hire charges of boats, coir ropes, crow bar etc. complete.(observed data)	Item 58	1262	Each	1200.00	1514400.00	INR Fifteen Lakh Fourteen Thousand Four Hundred Only
60	Conveying, lifting, handling, Hoisting, aligning and fixing R.C.C.piles 300mm square, 5.30m length including hire charges of plants, wooden scallings, Coir ropes, crow bar etc.complete.(SI.No.708)	Item 59	6688	m	300.00	2006400.00	INR Twenty Lakh Six Thousand Four Hundred Only
61	Driving down R.C.C. piles 300mm square through various strata from the bed level till refusal of monkey weighing not less than two tonnes with the aid of pile driving plant, winches, barge and accessories, wire rope etc. including labour, lubricant oil, pay of staff etc. complete.(SI.No.709)	Item 60	3785	m	800.00	3028000.00	INR Thirty Lakh Twenty Eight Thousand Only
	Complete (SI.No.709) Chopping and driving the top of the R.C.C.piles to lines and levels carefully without damaging the remaining portion and removing the debris up to the distance of 150m stacking etc. complete.(SI.No.710)	Item 61	28.558	m3	5000.00	144790.00	INR One Lakh Forty Four Thousand Seven Hundred & Ninety Only

Managing Director
 Kerala Irrigation Infrastructure Development Corporation Ltd.

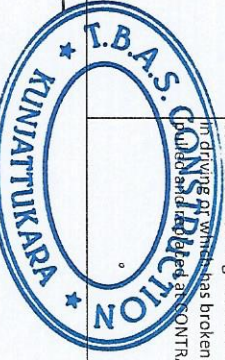



63	Conveying lifting handling hoisting aligning and fixing RCC slab inserting in between piles	Item 63	4158	m ²	450.00	1871100.00	INR Eighteen Lakh Seventy One Thousand One Hundred Only
64	Earth work excavation in ordinary soil and depositing with all leads and lifts etc complete. including neat banking (Sl. No. 56)	Item 64	442	m ³	360.00	159120.00	INR One Lakh Fifty Nine Thousand One Hundred & Twenty Only
65	Cement concrete 1:1.5:3 by using 20mm nominal size broken stones including all hire of formwork, watering, curing for etc complete for anchor beams	Item 65	20.25	m ³	16100.00	326025.00	INR Three Lakh Twenty Six Thousand & Twenty Five Only
66	Cement concrete 1:1.5:3 by using 20mm nominal size broken stones including all hire of formwork, watering, curing for etc complete for anchor blocks	Item 66	126.563	m ³	16100.00	2037664.30	INR Twenty Lakh Thirty Seven Thousand Six Hundred & Sixty Four and Paise Thirty Only
67	Cement concrete 1:1.5:3 by using 20mm nominal size broken stones including all hire of formwork, watering, curing for etc complete for Tie beams for piles	Item 67	162	m ³	16100.00	2608200.00	INR Twenty Six Lakh Eight Thousand Two Hundred Only
68	Reinforcement for R.C.C work, bent, tied and placed in position using TMT steel including cost and conveyance of materials labour charges etc. complete for pre-cast slabs and piles, anchor block, anchor beams, tie beams etc. complete (Sl.No:130a)	Item 68	463.22	Q#	8700.00	4030014.00	INR Forty Lakh Thirty Thousand & Fourteen Only
69	Providing anti-corrosive treatment for reinforcement used in R.C.C works including removing dust and cleaning the surface of reinforcement by sand blasting applying one coat inhibitor soln by preparing the soln mixing portland cement in the ratio of 600cc Impodex to 1kg of portland cement etc complete including cost and conveyance of all materials and machineris labour charges etc	Item 69	1335.31	Q#	1200.00	1602972.00	INR Sixteen Lakh Two Thousand Nine Hundred & Seventy Two Only
70	Cut earth blanket on top of earthen bund formed (Sl No:56,67)	Item 70	756	m ³	150.00	113400.00	INR One Lakh Thirteen Thousand Four Hundred Only




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71	<p>Supplying and providing (hire charges only) U shaped Hot Rolled Steel Sheet Pile of 5m length having width of 600mm, minimum thickness 10mm, minimum Sectional modulus 625 cm³/m, minimum Moment of Inertia 9670 cm⁴/m and minimum yield stress 355 N/mm² including cost and conveyance of all materials etc complete. All steel sheet piling shall be new and unsplined material throughout. Steel sheet piles shall be of a design that ensures continuous interlock throughout the entire length when in place. Steel sheet piling shall meet the requirements of ASTM A328, (Grade 50) or equivalent. Steel sheet piles required for the PROJECT shall be the type and weight shown on the DRAWINGS. Sheet piling shall be having a weathering finish. Additional length beyond those indicated on the DRAWINGS may be provided for trimming of tops of sheet piling. The interlocks between steel pile sections shall be configured such that the average width of the annular space between all contact points of the interlocks shall be a maximum of 3mm. Steel sheet piles and interlocks shall not have excessive kinks, camber or twist that would prevent the pile from reasonably free sliding to grade. Handling holes shall be provided and there shall be two (2) standard 28.50mm diameter handling holes located 15 cm from one end. Supply shall be inclusive of conveyance of all materials to the department store or places at site indicated by the Engineer-in-charge, hire charges of all machineries, labour charges etc for unloading etc complete. (Sheet piles are used 20times)</p>	Item 71	747.5	tonne	2000.00	1495000.00	INR Fourteen Lakh Ninety Five Thousand Only
72	<p>Driving down steel sheet pile having width of 600 mm, interlocked together and penetrated through soil projecting sheet 2.0m or as directed by department engineers above bed level, including conveyance of all materials from department store/ previously driven spot to site, hire charges of all machineries, labour charges etc complete. All fabricated connections shall be made with the use of angles or bent plates, as necessary, and shall be adequately welded or connected with high strength bolts as accepted by ENGINEER. Piles shall not be subject to damage by impact bending stresses in transporting to and storing piles onsite. Store and handle piles in such a way that corrosion protection coating shall not be damaged. The holes for handling shall be plugged by welding a piece of steel over the hole prior to installing any riprap, backfill or drop structure cap. The plated hole shall be watertight. Steel sheet piling shall be driven to the depths shown on the DRAWINGS. Steel sheet piling shall be assembled before driving and then driven as a continuous wall, progressively in stages to keep the piles aligned correctly and minimize the danger of breaking the interlock between the sheets. Steel sheet piling shall be driven to form a tight bulkhead. A driving head shall be used and any piling which is damaged in driving or which has broken interlocks between sections shall be replaced at the expense of the CONTRACTOR's expense.</p>	Item 72	747.5	tonne	2000.00	1495000.00	INR Fourteen Lakh Ninety Five Thousand Only




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73	Pulling out steel sheet pile having width of 600 mm, interlocked together and penetrated through soil projecting sheet 2.0m or as directed by department engineers above bed level, including conveyance of all materials from department store/ previously driven spot to site, hire charges of all machineries, labour charges etc complete. All fabricated connections shall be made with the use of angles or bent plates, as necessary, and shall be adequately welded or connected with high strength bolts as accepted by ENGINEER. Piles shall not be subject to damage by impact bending stresses in transporting to and storing piles onsite. Store and handle piles in such a way that corrosion protection coating shall not be damaged. The holes for handling shall be plugged by welding a piece of steel over the hole prior to installing any riprap, backfill or drop structure cap. The plated hole shall be watertight. Steel sheet piling shall be pulled out continuously / progressively in stages to keep the piles intact and to minimize the danger of breaking the interlock between the sheets. A driving head shall be used and any piling which is damaged in pulling out or which has broken interlocks between sections shall be pulled and replaced at CONTRACTOR'S expense.	Item 73	747.5	tonne	2000.00	1495000.00	INR Fourteen Lakh Ninety Five Thousand Only
74	Clearing and removing water hyacinth pista, Thick Karuka and other underwater weeds and other submerged materials in or under water and other floating water weeds in the canal to contractors own place of choice including all cost and conveyance and labour charges etc complete	Item 74	146240	m ²	5.00	731200.00	INR Seven Lakh Thirty One Thousand Two Hundred Only
75	Desilting the canal by manually/mechanically at an average depth of 0.75m depositing the spoil at suitable nearby places for further conveyance including all lead and lifts hire and charges etc complete as per the direction of the departmental officers of site.	Item 75	291502	m ³	430.00	125345860.00	INR Twelve Crore Fifty Three Lakh Forty Five Thousand Eight Hundred & Sixty Only
76	Conveyance of desilted material by Mechanical Transport including loading, unloading, levelling and neatly dressing the disposed material as directed by the department engineers.	Item 76	2237284	m ³ km	24.00	53694816.00	INR Five Crore Thirty Six Lakh Ninety Four Thousand Eight Hundred & Sixteen Only
Total In Figures						443623015.10	INR Forty Four Crore Thirty Six Lakh Twenty Three Thousand & Fifteen and Paise Ten Only
Quoted Rate in Words		INR Forty Four Crore Thirty Six Lakh Twenty Three Thousand & Fifteen and Paise Ten Only					



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