

കേരളം केरल KERALA

D 010789

D 010789

AGREEMENT NO. 332/KI IDC/2022-23 DATED 16.05.2022

CONTRACT AGREEMENT entered on this ...16th... day of ...MAY.....

Two Thousand and Twenty-Two between JV of **M/S TBAS Construction Company and Marymatha Consortium KIZHAKKEDATH BUILDING, NO. VI/617D EDATHALA P.O, KUNJATTUKARA, ALUVA ERNAKULAM-683561** (hereinafter called the Contractor) on the one part and the Chief Engineer, Kerala Irrigation Infrastructure Development Corporation Ltd. (KI IDC), T.C. 84/3, NH66 Bypass Service Road, Near Eanchakkal Jn., Chackai P.O, Thiruvananthapuram – 695 024 for and on behalf of the Company (hereinafter called the Company) on the other part for the work “**BEAUTIFICATION OF CANALS IN ALAPPUZHA MODERNISING WATER TRANSPORT IN ALAPPUZHA TOWN CANALS AND CLEANING OF KAPPITHODE PHASE II**” by the former as per accompanying agreement, accepted tender with conditions of contract, plans, accepted schedule with specifications approved by the Chief Engineer, Kerala Irrigation Infrastructure Development Corporation Ltd. (KI IDC), T.C. 84/3, NH66 Bypass Service Road, Near Eanchakkal Jn., Chackai P.O, Thiruvananthapuram – 695 024, which form part of this agreement.

For TBAS CONSTRUCTION
PROPRIETOR

Allexand

Chief Engineer
Kerala Irrigation Infrastructure
Development Corporation Ltd.
Thiruvananthapuram - 695024

4294 11/3/2022 25000
No.....Date.....Rs.....

Abdul Salam T.B Thayanan (A)
Edathala po PIS

linked with No. from..... A " 102561



भारतीय गैर न्यायिक INDIA NON JUDICIAL

रु. 20000

बीस हजार रुपये

TWENTY THOUSAND RUPEES

Rs. 20000



सत्यमेव जयते

INDIA

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A 972657

A 972657

Signed and delivered by the above-mentioned JV of M/S TBAS Construction Company and Marymatha Consortium KIZHAKKEDATH BUILDING, NO. VI/617D EDATHALA P.O, KUNJATTUKARA, ALUVA ERNAKULAM-683561

For TBAS CONSTRUCTION
PROPRIETOR
Contractor

In the presence of:

1. Jishanth George
Jishanth
- 2.

Alleeance A.

Chief Engineer
Kerala Irrigation Infrastructure
Development Corporation Ltd.
Thiruvananthapuram - 695024

For TBAS CONSTRUCTION
PROPRIETOR

42944 11/3/2022 20000
No.....Date.....Rs.....

Abdul Salam TB
Thayalan @

linked with No. from.....to.....

Edathala P
PB 683561



भारतीय गैर न्यायिक INDIA NON JUDICIAL

रु.
25000

पच्चीस हजार रुपये



Rs.
25000

TWENTY FIVE THOUSAND RUPEES

കേരളം കെരल KERALA

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D 010790

Signed and delivered by Chief Engineer, Kerala Irrigation Infrastructure Development Corporation Ltd. (KIIDC), T.C. 84/3, NH66 Bypass Service Road, Near Eanchakkal Jn., Chackai P.O, Thiruvananthapuram – 695 024, for and on behalf of the Company.

Chief Engineer

In the presence of:

1.

2.

Chief Engineer
Kerala Irrigation Infrastructure
Development Corporation Ltd.
Thiruvananthapuram - 695024

For TBAS CONSTRUCTION
BY PROPRIETOR

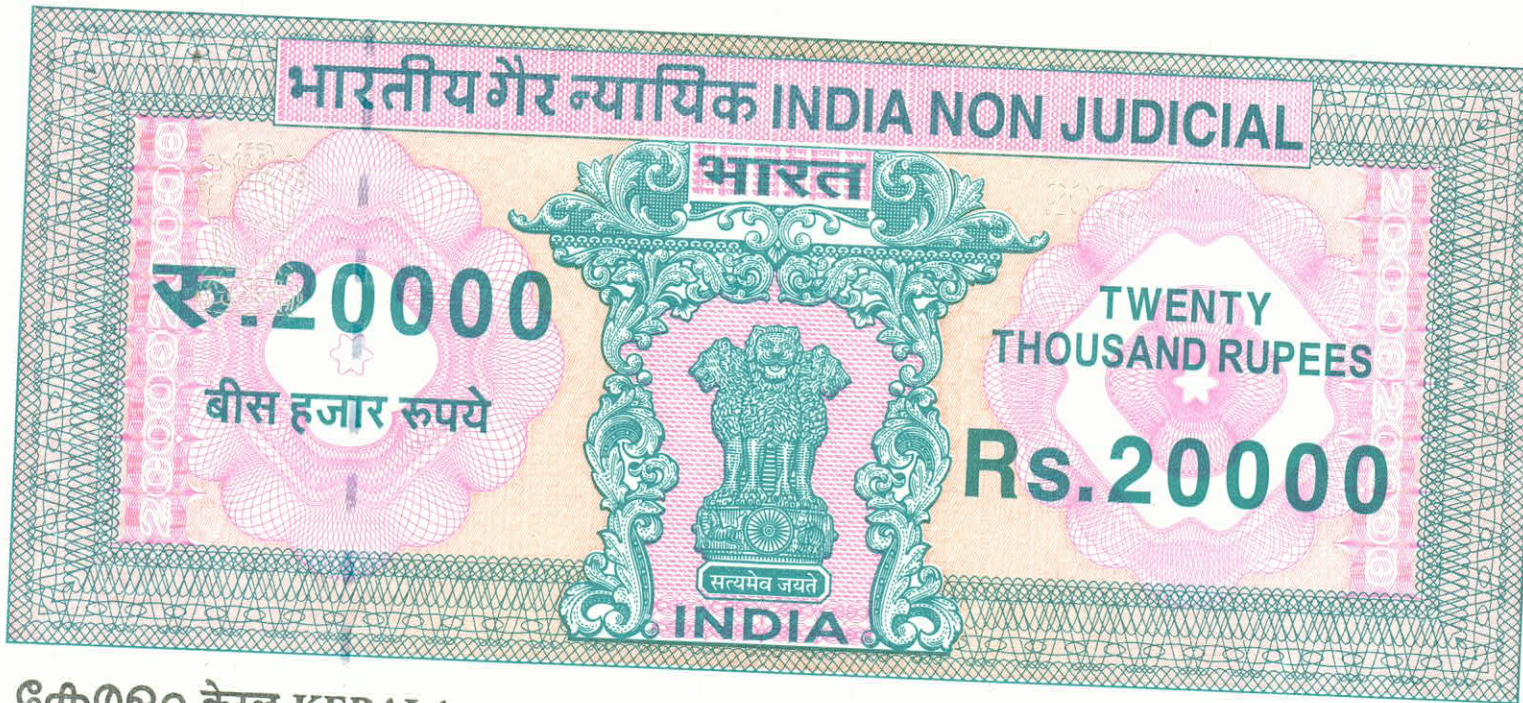
42942 11/3/2022 25000
No.....Date.....Rs.....

Abdul Salam T.B

Thayalan @

linked with No. from.....to..... Edathala ps





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A 972656

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MEMORANDUM OF WORK TENDERED

Name of the work	BEAUTIFICATION OF CANALS IN ALAPPUZHA MODERNISING WATER TRANSPORT IN ALAPPUZHA TOWN CANALS AND CLEANING OF KAPPITHODE PHASE II
Estimate P.A.C.	₹ 34,27,37,515/-
Contract P.A.C	₹ 40,95,63,647/-
Date of starting	The work should be started within 10 days after executing agreement
Date of completion	18 months from the date of handing over the site
Performance Guarantee	Bank Guarantee No. KFC/EKM/3/2022 dated 13.05.2022 of amount Rs 61,43,500/- valid till 11.12.2028 Treasury Fixed Deposit of Rs. 61,43,455/- is adjusted from the Retention amount of Alappuzha Phase I work.

For TBAS CONSTRUCTION

PROPRIETOR

Contractor

Abheena A.
Chief Engineer

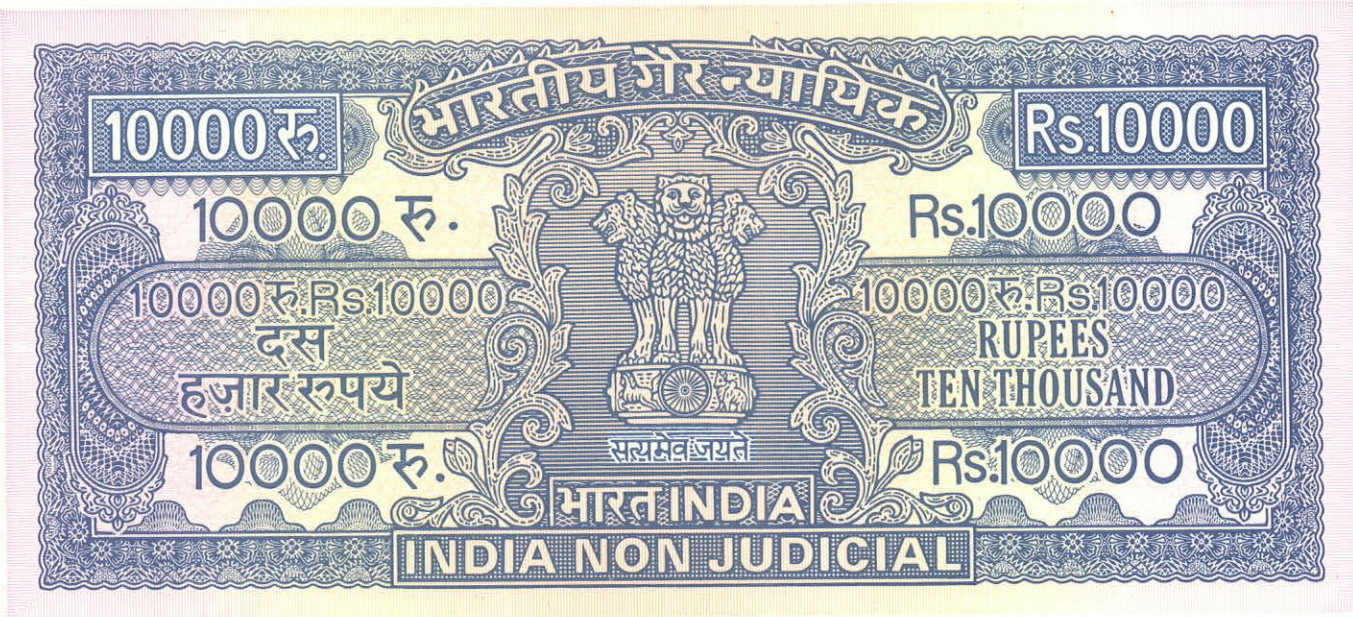
42943 11/3/2022 20,000
No.....Date.....Rs.....

Abdul Salam T.B

Thayalan @

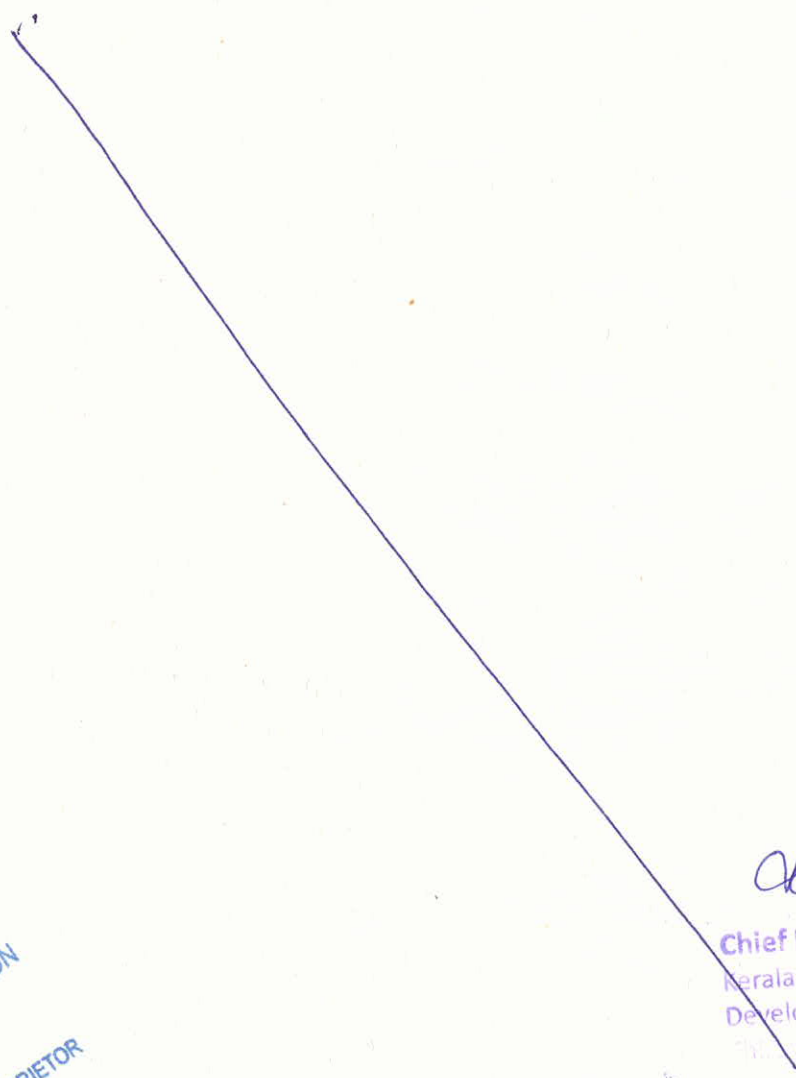
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കേരളം കേരल KERALA

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For TBAS CONSTRUCTION
PROPRIETOR

Aleecaneet A.
Chief Engineer
Kerala Irrigation Infrastructure
Development Corporation Ltd.
Thiruvananthapuram - 695024

42945 11/3/2022 10,000
No. Date Rs.
Abdul Salam T.B
Thayalan @



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Item Rate Boq

Tender Inviting Authority: KERALA IRRIGATION INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED

Work Name : BEAUTIFICATION OF CANALS IN ALAPPUZHA- MODERNISING WATER TRANSPORT IN ALAPPUZHA TOWN CANALS AND CLEANING OF KAPPITHODE -PHASE II.

Contract No: KIIDC/Retender/375-1/2020-21

Bidder Name : TBAS-Marymatha Consortium

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)

Sl. No.	Item Description	NUMBER #	Quantity	TEXT #	Units	NUMBER	Estimated Rate	NUMBER #	BASIC RATE In Figures To be entered by the Bidder Rs. P	NUMBER #	TOTAL AMOUNT Without Taxes	TEXT #	TOTAL AMOUNT In Words
1	1	2	4	5	6	13	53	55					
APPENDIX A: IMPROVEMENTS TO SUB CANALS AND BALANCE PROTECTION WORKS TO THE MAIN CANALS IN ALAPPUZHA													
1.01	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		48246.9600	sqm		10.0000	482469.60		INR Four Lakh Eighty Two Thousand Four Hundred & Sixty Nine and Paise Sixty Only				
1.02	od33518/2020_2021 : Removing water hyacinth and other vegetation from the water by cutting, collecting, conveying by boat and disposing at suitable places pointed out by the departmental officers at site with all leads and lifts and other incidental charges like hire of country boat and necessary equipment required etc complete		69120.0000	sqm		10.0000	691200.00		INR Six Lakh Ninety One Thousand Two Hundred Only				
1.03	2.33.1 : 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		1500.0000	each		905.0000	1357500.00		INR Thirteen Lakh Fifty Seven Thousand Five Hundred Only				

For TBAS CONSTRUCTION

PROPRIETOR

Signature

Chief Engineer
Kerala Irrigation Infrastructure
Development Corporation Ltd.
Thiruvananthapuram - 695024

1.04	60.7.3 : DISMANTLING DR - Dismantling, cleaning away and carefully stacking materials useful for reuse for any thickness of walls in DR masonry including disposal of debris within a distance of 150m.	2880.0000	cum			410.0000	1180800.00	INR Eleven Lakh Eighty Thousand Eight Hundred Only
1.05	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)	100.0000	cum			1355.0000	135500.00	INR One Lakh Thirty Five Thousand Five Hundred Only
1.06	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	57774.5440	cum			325.0000	18581726.80	INR One Crore Eighty Five Lakh Eighty One Thousand Seven Hundred & Twenty Six and Paise Eighty Only
1.07	60.7.1 : 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	14828.1180	cum			3685.0000	54641614.83	INR Five Crore Forty Six Lakh Forty One Thousand Six Hundred & Fourteen and Paise Eighty Three Only
1.08	60.7.2 : 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.	17121.0910	cum			3200.0000	54787491.20	INR Five Crore Forty Seven Lakh Eighty Seven Thousand Four Hundred & Ninety One and Paise Twenty Only
1.09	7.1.1 : 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)	4837.7570	cum			5500.0000	26607663.50	INR Two Crore Sixty Six Lakh Seven Thousand Six Hundred & Sixty Three and Paise Fifty Only
1.1	4.1.5 : Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level. 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	791.4380	cum			7240.0000	5730011.12	INR Fifty Seven Lakh Thirty Thousand & Eleven and Paise Twelve Only
1.11	60.7.8 : 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	2016.0000	cum			1357.0000	2735712.00	INR Twenty Seven Lakh Thirty Five Thousand Seven Hundred & Twelve Only

Meenambal

Chief Engineer

Kerala Irrigation Infrastructure
Development Corporation Ltd.
Thiruvananthapuram - 695024

PROPRIETOR

For TBAS CONSTRUCTION

1.12	od124386/2020_2021 : Supplying at site of work granite stones 20 to 40 dm3 in size, including stacking for measurement. Specifications same as that of item 60.34.3.	3043.0000	cum			1995.0000	6070785.00	INR Sixty Seven Thousand Seven Hundred & Eighty Five Only
1.13	od124386/2020_2021 : Conveyance of departmental granite stones 20 to 40 dm3 in size from stack at site and dumping in position to lines and levels to form the foundation of the retaining wall as per approved design including all leads and lifts, etc. complete as per the directions of the departmental Officers at site. Specification same as item 60.45	3043.0000	cum			380.0000	1156340.00	INR Eleven Lakh Fifty Six Thousand Three Hundred & Forty Only
1.14	4.3.1 : Centering and shuttering including strutting, propping etc. and removal of form work for Foundations, footings, bases for columns	3165.7500	sqm			455.0000	1440416.25	INR Fourteen Lakh Forty Thousand Four Hundred & Sixteen and Paise Twenty Five Only
1.15	od25328/2020_2021 : Pre-cast RCC piles 6.00m X .3m X .3m with pointed end in Cement Concrete 1:1.5:3 by using 20mm nominal size broken stone including all cost of form work, watering, curing etc. complete excluding cost of reinforcement, casting at contractor's own yard near site of work etc. complete.	234.2520	cum			12670.0000	2967972.84	INR Twenty Nine Lakh Sixty Seven Thousand Nine Hundred & Seventy Two and Paise Eighty Four Only
1.16	od25338/2020_2021 : Precast Reinforced Cement Concrete slabs required size in cement concrete 1:1.5:3 by using 20mm nominal size broken stone including all cost of form work, watering, curing etc. complete by casting at contractor's own yard near the site of work etc. complete excluding the cost of reinforcement.	112.8000	cum			12670.0000	1429176.00	INR Fourteen Lakh Twenty Nine Thousand One Hundred & Seventy Six Only
1.17	od25445/2020_2021 : Conveying precast R C C piles 300 mm square, 6.00m length from the place of casting to the site including hire charges of boats, coir ropes, crow bar etc. complete	482.0000	each			1085.0000	522970.00	INR Five Lakh Twenty Two Thousand Nine Hundred & Seventy Only
1.18	od25349/2020_2021 : Conveying, lifting, handling, hoisting, aligning and setting in position, the precast R C C slab in between piles and finishing with neat cement on joints etc complete	111.8400	cum			9275.0000	1037316.00	INR Ten Lakh Thirty Seven Thousand Three Hundred & Sixteen Only
1.19	od25350/2020_2021 : Protecting the filled earth from seepage through the joints of precast slabs using geotabric filter GWT - 26 - 130 as per the direction from the departmental officers at site including all cost of materials, labour, conveyance and all other incidental charges involved etc complete.	2200.0000	sqm			115.0000	253000.00	INR Two Lakh Fifty Three Thousand Only

Shreeveedh

Chief Engineer

For TBAS CONSTRUCTION

 PROPRIETOR

Kerala Irrigation Infrastructure
 Development Corporation Ltd.
 Thiruvananthapuram - 695024

1.2	od25351/2020_2021 : Chipping and removing the top of the R.C.C.piles to lines and levels carefully with out damaging the remaining portion and removing the debris up to distance of 150m stacking etc complete (specification as per 15.3 of DAR)	13,0140	cum	910,0000	11842.74	INR Eleven Thousand Eight Hundred & Forty Two and Paise Seventy Four Only
1.21	od25462/2020_2021 : Lifting, handling, hoisting, aligning, fixing and Driving down R C C piles 300mm. square through various strata from the bed level till refusal of monkey weighing not less than 2 ton with the aid of pile driving plant winches, barge and accessories, wire rope etc.including labour,lubricant oil, pay of staff etc.complete.	1783.4000	metre	1220,0000	2175748.00	INR Twenty One Lakh Seventy Five Thousand Seven Hundred & Forty Eight Only
1.22	5.9.5 : Centering and shuttering including strutting, etc. and removal of form for Lintels, beams, plinth beams, girders bressumers and cantilevers	660.0000	sqm	635,0000	419100.00	INR Four Lakh Nineteen Thousand One Hundred Only
1.23	5.9.1 : Centering and shuttering including strutting, etc. and removal of form for Foundations, footings, bases of columns, etc for mass concrete	891.1800	sqm	455,0000	405486.90	INR Four Lakh Five Thousand Four Hundred & Eighty Six and Paise Ninety Only
1.24	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	191.5190	cum	11765,0000	2253221.04	INR Twenty Two Lakh Fifty Three Thousand Two Hundred & Twenty One and Paise Four Only
1.25	od25731/2020_2021 : Supply and spreading of contractor's own red earth for back filling the rear side of retaining wall/ for raising the existing road and culvert approaches including leveling and neatly dressed and all cost of conveyance and royalty as per the directions of the engineer-in-charge. Approved OD LSGD no. od27887/2019_2020	1696.0000	cum	1100,0000	1865600.00	INR Eighteen Lakh Sixty Five Thousand Six Hundred Only

Shivanth

Chief Engineer

Kerala Irrigation Infrastructure
Development Corporation Ltd.
Thiruvananthapuram - 695024

For TBAS CONSTRUCTION

PROPRIETOR

1.26	od179371/2019_2020 . - Putting up ring bund to a top width 2 m and 3m height, pilla bund 1.2m width and 2m height and 1/4: 1 slop and protecting the side with full size well matured and sound coconut post 4.5m long driving down 1.2m below ground level on both side at 1.0m c/c fitting 1/2 split coconut wailing pies in three rows on either sides and tying with 1/2 split coconut cross ties at 2.00m c/c connecting the every 2nd set of post, providing arecanut reapers screen 15cm square mesh tied with coir yarn, filling inside the formation and providing plastic sheet (medium quality) inside the screen and filled with earth etc as per the instruction by the departmental officers at site and maintaining the bund properly through out construction period including cutting and removing materials and clearing area etc. complete as per the direction above including cost of dismantling. (Hire and labour charges only)	1078.0000	metre			3650.0000	3934700.00	INR Thirty Nine Lakh Thirty Four Thousand Seven Hundred Only
1.27	60.2.2 : Bailing out water Using 5HP Pump- Bailing out water with 5HP engine and pump set including conveyance to site and erection, cost of fuel, lubrication oil and other stores, pay of staff etc complete	41760.0000	hour			230.0000	9604800.00	INR Ninety Six Lakh Four Thousand Eight Hundred Only
1.28	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)	128.6260	cum			6900.0000	874656.80	INR Eight Lakh Seventy Four Thousand Six Hundred & Fifty Six and Paise Eighty Only
1.29	5.33.1 : 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 upto plinth level	485.8730	cum			8700.0000	4227095.10	INR Forty Two Lakh Twenty Seven Thousand & Ninety Five and Paise Ten Only
1.3	5.9.6 : Centering and shuttering including strutting, etc. and removal of form for Columns, Pillars, Piers, Abutments, Posts and Struts	330.3600	sqm			630.0000	208126.80	INR Two Lakh Eight Thousand One Hundred & Twenty Six and Paise Eighty Only

For TBAS CONSTRUCTION


PROPRIETOR



Chief Engineer

Kerala Irrigation Infrastructure

Development Corporation Ltd.

1.31	13.52.2 : Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete. On concrete work	330.3600	sqm			170.0000	56161.20	INR Fifty Six Thousand One Hundred & Sixty One and Paise Twenty Only
1.32	5.9.2 : Centering and shuttering including strutting, etc. and removal of form for Walls (any thickness) including attached plasters, buttresses, plinth and string courses etc.	2665.5010	sqm			510.0000	1359405.51	INR Thirteen Lakh Fifty Nine Thousand Four Hundred & Five and Paise Fifty One Only
1.33	5.23 : Smooth finishing of the exposed surface of RCC work with 6mm thick cement mortar 1:3 (cement : 3 fine sand).	1281.5010	sqm			200.0000	256300.20	INR Two Lakh Fifty Six Thousand Three Hundred and Paise Twenty Only
1.34	60.6 : PVC WEEP HOLES- Providing weep holes using 75mm dia. PVC pipes working pressure 4kg /sq.cm including cost of materials, conveyance, labour charges etc. complete.	15.0000	metre			110.0000	1650.00	INR One Thousand Six Hundred & Fifty Only
1.35	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	135279.7400	kilogram			80.0000	10822379.20	INR One Crore Eight Lakh Twenty Two Thousand Three Hundred & Seventy Nine and Paise Twenty Only
1.36	16.19 : Supplying at site Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia. etc. complete.	4532.4000	kilogram			90.0000	407916.00	INR Four Lakh Seven Thousand Nine Hundred & Fifteen and Paise One Hundred Only
1.37	16.70.2 : Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50X50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge. Made of G.I wire of dia 4 mm. PVC coated to achieve outer dia. not less than 5 mm in required colour and shade	750.0000	sqm			1100.0000	825000.00	INR Eight Lakh Twenty Five Thousand Only
1.38	od240295/2019_2020 : Strengthening the slopes of earthen bund using coir geo-textiles aided vegetative turfing including all costs of materials labour charge conveyance and all other incidental charges involved etc complete as per standard specification and as directed by departmental officers at site.	110136.0000	sqm			115.0000	12665640.00	INR One Crore Twenty Six Lakh Sixty Five Thousand Six Hundred & Forty Only

For TBAS CONSTRUCTION


PROPRIETOR



Chief Engineer

Kerala Irrigation Infrastructure
Development Corporation Ltd.

Thiruvananthapuram - 695024

1.39	26.30.1 : Drilling suitable holes in reinforced or plain cement concrete with power driven drill machine to a minimum depth of 100mm upto 200mm in RCC beams, lintels, columns and slabs to introduce steel bars for sunshades/balconies including fixing the steel bars in position using epoxy resin anchor grout of approved make but excluding the cost of reinforcement, all complete as per direction of Engineer-In-Charge. Upto and including 12mm dia.	2004.0000	holes					100.0000	200400.00	INR Two Lakh Four Hundred Only
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2	APPENDIX B- DEMOLITION AND CONSTRUCTION OF TWIN BOX CULVERT(3 no.s) IN A.S CANAL AND 1 NO. SINGLE BOX CUL									
2.01	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.	61.8000	cum					2285.0000	139977.00	INR One Lakh Thirty Nine Thousand Nine Hundred & Seventy Seven Only
2.02	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- Charges. In cement mortar	59.6400	cum					1360.0000	81110.40	INR Eighty One Thousand One Hundred & Ten and Paise Forty Only
2.03	60.7.3 : DISMANTLING DR - Dismantling , clearing away and carefully stacking materials useful for reuse for any thickness of walls in DR masonry including disposal of debris within a distance of 150m.	100.9930	cum					410.0000	41407.13	INR Forty One Thousand Four Hundred & Seven and Paise Thirteen Only
2.04	60.7.8 : 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	75.7450	cum					1357.0000	102785.97	INR One Lakh Two Thousand Seven Hundred & Eighty Five and Paise Ninety Seven Only

For TBAS CONSTRUCTION


PROPRIETOR



Chief Engineer
Kerala Irrigation Infrastructure
Development Corporation Ltd.
Thiruvananthapuram - 695024

For TBAS CONSTRUCTION

2.05	od1793771/2019_2020 : Putting up ring bund to a top width 2 m and 3m height, pilla bund 1.2m width and 2m height and 1/4:1 slope and protecting the side with full size well matured and sound coconut post 4.5m long driving down 1.2m below ground level on both side at 1.0m c/c fitting 1/2 split coconut wailing pies in three rows on either sides and tying with 1/2 split coconut cross ties at 2.00m c/c connecting the every 2nd set of post, providing arecanut reapers screen 15cm square mesh tied with coir yarn, filling inside the formation and providing plastic sheet (medium quality) inside the screen and filled with earth etc as per the instruction by the departmental officers at site and maintaining the bund properly through out construction period including cutting and removing materials and clearing area etc. complete as per the direction above including cost of dismantling. (Hire and labour charges only)	118.0000	metre			3650.0000	430700.00	INR Four Lakh Thirty Thousand Seven Hundred Only
2.06	od1793772/2019_2020 : Putting up ring bund to a top width 4m and 3m height, pilla bund 1.2m width and 2m height and 1/4:1 slope and protecting the side with full size well matured and sound coconut post 4.5m long driving down 1.2m below ground level on both side at 1.0m c/c fitting 1/2 split coconut wailing pies in three rows on either sides and tying with 1/2 split coconut cross ties at 2.00m c/c connecting the each 2nd set of post, providing arecanut reapers screen 15cm square mesh tied with coir yarn, filling inside the formation and providing plastic sheet (medium quality) inside the screen and filled with earth etc as per the instruction by the departmental officers at site and maintaining the bund properly through out the construction period including cutting and removing materials and clearing area etc. complete as per the direction above including cost of dismantling. (Hire and labour charges only)	38.0000	metre			5885.0000	223630.00	INR Two Lakh Twenty Three Thousand Six Hundred & Thirty Only
2.07	60.2.3 : 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 to site and erection, cost of fuel, lubrication oil and other stores, pay of staff etc complete	1184.0000	hour			290.0000	343360.00	INR Three Lakh Forty Three Thousand Three Hundred & Sixty Only
2.08	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	1453.3430	cum			325.0000	472336.48	INR Four Lakh Seventy Two Thousand Three Hundred & Thirty Six and Paise Forty Eight Only

Devenish A.

Chief Engineer

Kerala Irrigation Infrastructure
Development Corporation Ltd,
Thiruvananthapuram - 695024

[Signature]
PROPRIETOR

2.09	60.64.1 : 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.	4338.0000	metre			180.0000	780840.00	INR Seven Lakh Eighty Thousand Eight Hundred & Forty Only
2.1	60.64.4 : 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	3904.2000	metre			725.0000	2830545.00	INR Twenty Eight Lakh Thirty Thousand Five Hundred & Forty Five Only
2.11	60.7.2 : 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.	809.5610	cum			3200.0000	2590595.20	INR Twenty Five Lakh Ninety Thousand Five Hundred & Ninety Five and Paise Twenty Only
2.12	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: 4.8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)	59.2210	cum			6800.0000	402702.80	INR Four Lakh Two Thousand Seven Hundred & Two and Paise Eighty Only
2.13	5.9.1 : Centering and shuttering including strutting, etc. and removal of form for Foundations, footings, bases of columns, etc for mass concrete	203.0920	sqm			455.0000	92406.86	INR Ninety Two Thousand Four Hundred & Six and Paise Eighty Six Only
2.14	5.33.1 : 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 upto plinth level	277.6390	cum			8700.0000	2415459.30	INR Twenty Four Lakh Fifteen Thousand Four Hundred & Fifty Nine and Paise Thirty Only
2.15	5.9.2 : Centering and shuttering including strutting, etc. and removal of form for Walls (any thickness) including attached plasters, buttresses, plinth and string courses etc.	708.9030	sqm			510.0000	361540.53	INR Three Lakh Sixty One Thousand Five Hundred & Forty and Paise Fifty Three Only

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2.16	5.9.3 : Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balcones and access platform	149.9940	sqm			585.0000	87746.49	INR Eighty Seven Thousand Seven Hundred & Forty Six and Paise Forty Nine Only
2.17	5.2.6 : 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	4291.12500	kilogram			80.0000	3432900.00	INR Thirty Four Lakh Thirty Two Thousand Nine Hundred Only
2.18	60.7.1 : 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	429.6460	cum			3685.0000	1583245.51	INR Fifteen Lakh Eighty Three Thousand Two Hundred & Forty Five and Paise Fifty One Only
2.19	7.2.1 : 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)	123.3120	cum			6450.0000	795362.40	INR Seven Lakh Ninety Five Thousand Three Hundred & Sixty Two and Paise Forty Only
2.2	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 : 4 graded stone aggregate 20 mm nominal size)	31.1790	cum			9500.0000	296200.50	INR Two Lakh Ninety Six Thousand Two Hundred and Paise Fifty Only
2.21	od25731/2020_2021 : Supply and spreading of contractor's own red earth for back filling the rear side of retaining wall/ for raising the existing road and culvert approaches including leveling and neatly dressed and all cost of conveyance and royalty as per the directions of the engineer-in-charge. Approved OD LSGD no. od278872/2019_2020	3263.7210	cum			1100.0000	3590093.10	INR Thirty Five Lakh Ninety Thousand &Ninety Three and Paise Ten Only
2.22	16.78.2 : Construction of granular sub-base by Providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC. Carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-charge. With material conforming to Grade-II (size range 53 mm to 0.075 mm) having CBRValue-25	532.4720	cum			3170.0000	1687936.24	INR Sixteen Lakh Eighty Seven Thousand Nine Hundred & Thirty Six and Paise Twenty Four Only

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2.23	16.91.2 : Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc. of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand, complete all as per direction of Engineer-in-Charge 80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	3549.8030	sqm			1150.0000	4082273.45	INR Forty Lakh Eighty Two Thousand Two Hundred & Seventy Three and Paise Forty Five Only
2.24	13.52.2 : Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete. On concrete work	429.1630	sqm			170.0000	72957.71	INR Seventy Two Thousand Nine Hundred & Fifty Seven and Paise Seventy One Only
3	APPENDIX C- IMPROVEMENTS OF KAPPITHODU IN AMBALAPPUZHA LA CONSTITUENCY AT AMBALAPPUZHA SOUTH AND N							
3.01	2.31 : Clearing jungle including uprooting of trunk 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	17049.1740	sqm			10.0000	170491.74	INR One Lakh Seventy Thousand Four Hundred & Ninety One and Paise Seventy Four Only
3.02	od33518/2020_2021 : Removing water hyacinth and other vegetation from the water by cutting, collecting, conveying by boat and disposing at suitable places pointed out by the departmental officers at site with all leads and lifts and other incidental charges like hire of country boat and necessary equipment required etc complete	13500.0000	sqm			10.0000	135000.00	INR One Lakh Thirty Five Thousand Only
3.03	50.2.33.5 : Cutting branches of trees overhanging above any structures of girth between 40cm to 60cm including stacking of serviceable materials and disposal of unserviceable material, cost of labour, hire charges of rope and pulley etc without making any damages to nearby structures etc complete.	3700.0000	each			455.0000	1683500.00	INR Sixteen Lakh Eighty Three Thousand Five Hundred Only

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3.04	od179371/2019_2020 : Putting up ring bund to a top width 2 m and 3m height, pilla bund 1.2m width and 2m height and 1/4:1 slope and protecting the side with full size well matured and sound coconut post 4.5m long driving down 1.2m below ground level on both side at 1.0m c/c, fitting 1/2 split coconut walling pies in three rows on either sides and tying with 1/2 split coconut cross ties at 2.00m c/c connecting the every 2nd set of post, providing arecanut reapers screen 15cm square mesh tied with coir yarn, filling inside the formation and providing plastic sheet (medium quality) inside the screen and filled with earth etc.as per the instruction by the departmental officers at site and maintaining the bund properly through out construction period including cutting and removing materials and clearing area etc. complete as per the direction above including cost of dismantling. (Hire and labour charges only)	177.0000	metre				3650.0000	646050.00	INR Six Lakh Forty Six Thousand & Fifty Only
3.05	60.2.2 : Bailing out water Using 5HP Pump- Bailing out water with 5HP engine and pump set including conveyance to site and erection, cost of fuel, lubrication oil and other stores, pay of staff etc complete	10304.0000	hour				230.0000	2369920.00	INR Twenty Three Lakh Sixty Nine Thousand Nine Hundred & Twenty Only
3.06	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	34778.4730	cum				325.0000	11303003.73	INR One Crore Thirteen Lakh Three Thousand & Three and Paise Seventy Two Only
3.07	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.	6.1510	cum				2265.0000	13932.02	INR Thirteen Thousand Nine Hundred & Thirty Two and Paise One Only
3.08	60.64.1 : 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.	600.0000	metre				180.0000	108000.00	INR One Lakh Eight Thousand Only
3.09	60.64.4 : 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	600.0000	metre				725.0000	435000.00	INR Four Lakh Thirty Five Thousand Only
3.1	5.9.1 : Centering and shuttering including strutting, etc. and removal of form for Foundations, footings, bases of columns.	1077.2420	sqm				455.0000	490145.11	INR Four Lakh Ninety Thousand/One Hundred & Forty Five and Paise Five Hundred Only. Chief Engineer

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3.11	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.	192.6430	sqm			510.0000	98247.93	INR Ninety Eight Thousand Two Hundred & Forty Seven and Paise Ninety Three Only
3.12	5.9.3 : Centering and shuttering including strutting, etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform	52.3020	sqm			585.0000	30596.67	INR Thirty Thousand Five Hundred & Ninety Six and Paise Sixty Seven Only
3.13	5.3.1 : 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 upto plinth level	81.3640	cum			8700.0000	707866.80	INR Seven Lakh Seven Thousand Eight Hundred & Sixty Six and Paise Eighty Only
3.14	5.2.2.6 : 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 of grade Fe-500D or more	12204.6010	kilogram			80.0000	976368.08	INR Nine Lakh Seventy Six Thousand Three Hundred & Sixty Eight and Paise Eight Only
3.15	60.7.3 : DISMANTLING DR - Dismantling, clearing away and carefully stacking materials useful for reuse for any thickness of walls in DR masonry including disposal of debris within a distance of 150m.	36.4000	cum			410.0000	14924.00	INR Fourteen Thousand Nine Hundred & Twenty Four Only
3.16	60.7.8 : 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	25.4800	cum			1357.0000	34576.36	INR Thirty Four Thousand Five Hundred & Seventy Six and Paise Thirty Six Only
3.17	60.7.2 : 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.	8375.4360	cum			3200.0000	26801395.20	INR Two Crore Sixty Eight Lakh One Thousand Three Hundred & Ninety Five and Paise Twenty Only

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3.18	60.7.1 : 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	4770.3750 cum				3685.0000	17578831.88	INR One Crore Seventy Five Lakh Seventy Eight Thousand Eight Hundred & Thirty One and Paise Eighty Eight Only
3.19	7.1.1 : 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)	1864.3500 cum				5500.0000	10253925.00	INR One Crore Two Lakh Fifty Three Thousand Nine Hundred & Twenty Five Only
3.2	od240296/2019_2020 : Strengthening the slopes of earthen bund using coir geo-textiles aided vegetative turfing including all costs of materials labour charge conveyance and all other incidental charges involved etc complete as per standard specification and as directed by departmental officers at site.	68238.0000 sqm				115.0000	7847370.00	INR Seventy Eight Lakh Forty Seven Thousand Three Hundred & Seventy Only
3.21	4.1.5 : Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	266.2500 cum				7240.0000	1927650.00	INR Nineteen Lakh Twenty Seven Thousand Six Hundred & Fifty Only
3.22	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)	14.7060 cum				6800.0000	100000.80	INR One Lakh and Paise Eighty Only
3.23	10.2 : Structural steel work riveted, bolted or welded in built up sections, trusses and framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	16637.5000 kg				150.0000	2495625.00	INR Twenty Four Lakh Ninety Five Thousand Six Hundred & Twenty Five Only

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3.24	10.28 : Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete. /lc fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge. (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)	200.0000	kg		967.1500	193430.00	INR One Lakh Ninety Three Thousand Four Hundred & Thirty Only
4	APPENDIX D: IMPROVEMENTS OF A.S CANAL(BALANCE PORTION) AND MADAVANTHODU						
4.01	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	12800.0000	sqm		10.0000	128000.00	INR One Lakh Twenty Eight Thousand Only
4.02	od33518/2020_2021 : Removing water hyacinth and other vegetation from the water by cutting, collecting, conveying by boat and disposing at suitable places pointed out by the departmental officers at site with all leads and lifts and other incidental charges like hire of country boat and necessary equipment required etc: complete	32000.0000	sqm		10.0000	320000.00	INR Three Lakh Twenty Thousand Only
4.03	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	46080.0000	cum		325.0000	14976000.00	INR One Crore Forty Nine Lakh Seventy Six Thousand Only
4.04	od254958/2019_2020 : Extra for Conveying the excavated material by mechanical means dumping and dressing at locations as directed by the Engineer-in-charge for conveying 1km length.	21600.0000	cum		45.0000	972000.00	INR Nine Lakh Seventy Two Thousand Only
4.05	2.33.1 : 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	150.0000	each		905.0000	135750.00	INR One Lakh Thirty Five Thousand Seven Hundred & Fifty Only

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4.06	60.7.2 : 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.	5950.0000	cum					3200.0000	19040000.00	INR One Crore Ninety Lakh Forty Thousand Only	
4.07	60.7.1 : 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	3911.2500	cum					3685.0000	14412956.25	INR One Crore Forty Four Lakh Twelve Thousand Nine Hundred & Fifty Six and Paise Twenty Five Only	
4.08	7.1.1 : 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)	1517.2880	cum					5500.0000	8345084.00	INR Eighty Three Lakh Forty Five Thousand & Eighty Four Only	
4.09	4.1.5 : Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	168.7500	cum					7240.0000	1221750.00	INR Twelve Lakh Twenty One Thousand Seven Hundred & Fifty Only	
4.1	5.9.1 : Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete	750.0000	sqm					455.0000	341250.00	INR Three Lakh Forty One Thousand Two Hundred & Fifty Only	
4.11	od240295/2019_2020 : Strengthening the slopes of earthen bund using coir geo-textiles aided vegetative turfing including all costs of materials labour charge conveyance and all other incidental charges involved etc complete as per standard specification and as directed by departmental officers at site.	16800.0000	sqm					115.0000	1932000.00	INR Nineteen Lakh Thirty Two Thousand Only	
Total in Figures									409563647.24		
Quoted Rate in Words		INR Forty Crore Ninety Five Lakh Sixty Three Thousand Six Hundred & Forty Seven and Paise					INR Forty Crore Ninety Five Lakh Sixty Three				

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