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KERALA WATER AUTHORITY OFFICE OF THE SUPERINTENDING ENGINEER P. H. CIRCLE, MUVATTUPUZHA

No. SE/PHC/MVPA/D4/T-21/2022-23 (I)

Dated: 22.09.2022

From

Superintending Engineer

То

The Chief Engineer, Central Region, Kochi

Sir

Sub:- KIIFB-Project-TRAN 10:WRD 025-06-WSS to Ayyappankovil Panchayath-Part II Package I&II-Design and construction of electrical control rooms at raw water pump house and treatment plant compound, supply, erection and commissioning of transformers and allied works(1) 500 KVA at Thonithady raw water pump house,(2) 400 KVA at WTP compound(3) Supply erection and commissioning of motor pump sets at RWPH, treatment plant sump pumphouse,Kalthotty pump house and Nariyanpara intermediate pump house etc,(4) supplying, laying and commissioning 80 mm GI pumping main(5) improvement work of Kalthotty sump& pump house,(6) construction of pipe line bridge,(7) design and construction of 1.00 LL capacity sump& pump house at Nariyanpara,(8) providing washwater disposal pipe line at WTP Alady and interconnection works etc(9) Supply and laying 350 mm and 300 mm DI gravity main/pumping main pipe from Alady GLSR to Kalthotty sump(Re-arranging)(10) Supply and laying 300mm DI pumping main from Kalthotty sump to Nariyanpara(Re-arranging)(11)Supply and Laying 250 mm DI pumping main from Nariyanpara to Idukki Kavala(balance work rearranging)-tender submitted for Sanction- reg:-

Ref:- 1)A.S.No. GO(Rt) No.34/2018/WRD dated 17.01.2018 from Water
Resources Department.OrderNo.WRD 025-06-PA-01 dated
13.11.2018 of the Chef Executive Officer, KIIFB, Thiruvananthapuram
2) a) T.S./2020-21/2018/13138 dated 08.12.2020 of Chief Engineer (CR) for an amount of Rs.578.80 Lakhs

b) T.S/2020-21/2018/13980 dated 04.01.2021 of CE(CR) for an amount of Rs.1073 lakhs

3) That office letter No.KWA/CE/CR/KTA/KIIFB/650/2019 dated 03.06.2020
4) Package I- This office etender No.39/2020-21/SE/PHC/MVPA Due on
3.02.2021





upto 22.03.2021

6) Package II(A)- This office E-tender No.44/2020-21/SE/PHC/MVPA due on 09.02.2021 extended to

7) Re-E-tender No.52/2020-21/SE/PHC/MVPA due on 08.03.2021 extended to 22.03.2021,29.03.2021,15.04.2021

8) Package II(B)- This office E-tender No.45/2020-21/SE/PHC/MVPA due on 09.02.2021 extended to 15.02.2021

9) Re-E-tender No.53/2020-21/SE/PHC/MVPA due on 08.03.2021 extended to 22.03.2021,29.03.2021,15.04.2021

10). National level E-Tender No.02/2021-22/SE/PHC/MVPA due on 25.06.2021 extended to 12.07.2021, 28.07.2021

11) This office proceedings no: KWA/SE/PHC/MVPA/D1/T-02/2021 dated 28.07.2021

12) Re-E-Tender No.05/2021-22/SE/PHC/MVPA due on 21.09.2021 extended to 25.09.2021

13) Minutes No: KWA/CE/CR/KTA/KIIFB/650/2019 of the single tender committee chaired by CE/CR, held on 28.10.2021

14) This office proceedings No. KWA/SE/PHC/MVPA/D1/T-05/2021 dated 08.11.2021.

15) a) T.S./2021-22/2018/13138 (Reg.No.13524/2021-22) dated 20.11.2021 of Chief Engineer (CR) for an amount of

Rs.611.50 Lakhs

b) T.S./2021-22/2018/13980(Reg.No.13469/2021-22) dated20.11.2021 of Chief Engineer (CR) for an amount of Rs.1164L

16) E-Tender No.07/2021-22/SE/PHC/MVPA due on 14.12.2021

17) Tender committee Minutes No: KWA/CE/CR/KTA/KIIFB/650/2019 on 1.01.2022 chaired by CE/CR,

18) This office proceedings No. : KWA/SE/PHC/MVPA/D1/T-07/2021 dated 06.01.2022.

19) Re-E-Tender No.21/2021-22/SE/PHC/MVPA due on 05.02.2022 and extended to 11.02.2022

20) Minutes of special Technical Committee for price bid Evaliation of single Tender held on 09-03-2022 under the

chairmanship of Chief Engineer (CR), KWA, Kochi-11.

21) This office proceedings No. : KWA/SE/PHC/MVPA/D1/T-07/2021 dated 6.03.2022.

22) a) T.S./2021-22/2018/13138 (Reg.No.8668/2025-23) dated 29.06.2022 of Chief Engineer (CR) for an amount of Rs.633.20L

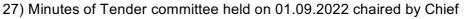
b) T.S./2021-22/2018/13980(Reg.No.8666/2022-23) dated29.06.2022 of Chief Engineer (CR) for an amount of Rs.1431 Lakhs

23) E-Tender No.13/2022-23/SE/PHC/MVPA due on 25.07.2022

24) This office proceedings No. : SE/PHC/MVPA/DB4/T-13/2022 dated 27.07.2022

25) Re-E-Tender No.21/2022-23/SE/PHC/MVPA due on 19.08.2022 .

26) This Office Letter No. even dated 25.08.2022





Engineer(CR) .KWA,Kochi-11.
28).This office proceedings even No. dated 03.09.2022.
29) This office proceedings even No. dated 17.09.2022.
30)Letter received from the contractor Electric Project Consultants, MP II/503,Makkaraparamba.Malappuram-676507.
31)This office letter of even dated 06.09.2022 addressed to CE.
32) This Office email dated 13.09.2022 to Electric power consultants

I am submitting herewith the tender documents received for the above work for favour of necessary action. In this regard, I may report as follows: Administrative sanction and Technical sanction was obtained for the above work as per reference 1st and 2nd cited. As per the 3rd cited above, it was directed from that office to arrange the Project in three packages.

Accordingly, estimates were prepared for the following 3 packages.

Package I)- Design and construction of electrical control rooms at raw water pump house and treatment plant compound, supply, erection and commissioning of transformers and allied works(1) 500 KVA at Thonithady raw water pump house (2) 400 KVA at WTP compound, supply, erection and commissioning of motor pumpsets at RWPH, treatment plant sump pump house, Kalthotty pump house and Nariyanpara intermediate Pump house etc.

- Package II-Supplying and laying and commissioning 350 mm, 300mm &250 mm DI pumping/gravity main and 80 mm GI pumping main improvement work of Kalthotty sump and pump house, construction of pipeline bridge, design and construction of 1.00 LL capacity sump & pump house at Nariyanpara, providing wash water disposal pipeline at WTPAlady and inter connection works etc- Tender invited to two packages as package II (A), package II(B)
- 2. PackageIII- Design and construction of check dam across Periyar River at Thonithady-Agreement executed

Package I was tendered two times from this office vide tender ref (4&5) cited. Tender vide ref(4) was cancelled due to non participation and tender ref (5) was cancelled as per direction from that office (Letter No.KWA/CE/CR/KTA/KIIFB/650/2019 dated 15.04.2021) on 27.04.2021 due to high rate. Package II(A) was tendered from this office vide ref (6) cited with due dated 09.02.2021. wide publicity was given, and notice published in et ender websites and newspaper dailies. No body participated and the due date was extended to 15.02.2021. Nobody participated and was cancelled and then re-tendered vide ref (7) cited with due date 08.03.2021 and again extended to 22.03.2021 & 29.03.2021 & 15.04.2021. No body quoted even after extending the due date up to 15.04.2021and was cancelled to rearrange the work in Global tender.

Package II(B)- This package is under the risk and cost of the Contractor Sri.S.Raju. This work was tendered from this office vide ref (8) cited with due date 09.02.2021 wide publicity was given, and notice published in e tender websites and newspaper dailies. No body participated and the due date was extended to 15.02.2021. No body participated and was cancelled and then re- etendered vide ref (9) cited with due date 08.03.2021 and again extended to 22.03.2021 & 29.03.2021 & 15.04.2021. No body quoted even after extending the due date up to 15.04.2021 and was cancelled to rearrange the work in Global tender.

These three above mentioned packages {Package I & II(A)&(B)} were combined and Global tender invited vide ref (10) cited with due date 25.06.2021. No body participated and the due date was extended to twice up to 28.07.2021. But only single tender received and was cancelled vide ref

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(11) cited. Re-tender was invited as vide ref (12) cited due on 21.09.2021. Only one bidder participated and was extended to 25.09.2021 & opening on 29.09.2021. As per minutes (ref.13), the committee decided to cancel the tender for retendering based on DSR 2018 after observing all procedural formalities. Accordingly this tender was cancelled vide proceedings dated 08.11.2021 (ref 14).

Vide reference 15th cited, the T.S was revised based on DSR 2018. Accordingly re e-tender was invited with revised PAC of 15,18,54,441/-as per DSR 2018 vide ref. (16) with due date on 14.12.2021 and opening date on 17.12.2021. Two bidders participated in this tender and only one bidder prequalified. This was the first tender call based on DSR 2018 and now the tender became single tender on dis qualification of one among the two bidders who participated in the tender. Hence the Special Technical Committee decided to cancel the tender and direct Superintending Engineer to retender as per rules. Accordingly, this tender was cancelled vide proceedings dated 06.01.2022. (ref 18).

Vide ref (19) re e-tender was invited fixing the due date on 11.02.2022 and opening on 16.02.2022.Only one bidder participated and the rate quoted by the firm was too high(53.25% above), Since quoted rate is very high, Committee ref (20) decided to cancel the tender and direct Superintending Engineer to verify and prepare realistic estimate based on site condition urgently.The tender was cancelled vide ref (21). Vide reference 22nd cited, the T.S was revised and e-tender was invited with revised PAC of 16,82,76,029/-. No body quoted and the tender was cancelled vide ref(24) for retendering. Accordingly re tender was invited vide ref (25) fixing the due date on 19.08.2022 and opening date on 22.08.2022.

In response to the tender call two bidders, Joseph John, Monipillil house Avoli P.O, Anicadu, Muvattupuzha, Ernakulam and Electric Project Consultants, MP II/503, Makkaraparamba. Malappuram-676507. JV with M.Ashraf, Moolamkuzhiyil House, Pazhamalloor P.O, Kottilangadi(Via), Malappuram participated in the tender and the technical bid of the tender was opened on 22.08.2022 at 4.00 PM and submitted to that office vide ref(26). As per minutes of tender committee vide ref(27), provisional pre qualification proceedings prequalifying only the bidder Sri. Joseph John was issued from this office on 03.09.2022 and emailed to both the bidders. The disqualified bidder M/s Electric Project Consultants, JV with M.Ashraf, objected to the disqualification, vide ref(30) above, which was reported to that office vide ref(31) and the reason for disqualification was also informed to the contractor by mail on 13.09.2022 and was directed to produce , within 3 days, any proof for reconsidering the disqualification, as per ref (32), but no reply was received. Hence, final prequalification proceedings issued from this office on 17.09.2022 fixing the opening of price bid on 19.09.2022. at 4.00 PM.

Sri. Joseph John quoted an amount of Rs.232227614.40 which is 38% above TPAC.LMR justification amount comes Rs.172640015/- . The firm period of the tender is up to 18.12.2022. In this regard, I may once again report that, even after incurring an amount of Rs.2529.59 Lakhs under ARP/NRDWP. the water supply scheme "CARWSS to Kattappana & Ayyappancovil Villages" could not be commissioned. Also 9357(Ayyappancovil Pt-1223(1st SLSSC) +2146(3rd SLSSC)=3369,Kanchiyar-3500(1st SLSSC)+2488(3rd SLSSC)=5988,(3369+5988=9357)).FHTC's sanctioned in JJM for Rs.5201.01Lakhs in Kanchiyar and Ayyappancovil Panchayaths targeted for completion in 2022-23, can be commissioned only after commissioning of this work. Tender Evaluation Statement, Status of Scheme, etc.also attached along with the tender documents.

I request that considering the urgent necessity of commissioning the scheme"CARWSS to Kattappana & Ayyappancovil Villages" the tender may be sanctioned at the earliest.



Сору То

The Executive Engineer, Project Division, Kattappana

Encl:

- 1. Performas
- 2. Supporting documents



The document is digitally approved. Hence signature is not needed.

eTendering System Government of Kerala Created By: Liny Francis Created Date/Time: 19-Sep-2022 04:57 PM Tender Title: KIIFB Ayyappancovil Tender ID: 2022_KWA_501579_1									
Fender Inviting Authority: SUPERINTENDING ENGINEER,P.H.CIRCLE,MUVATTUPUZHA Name of Work:KIIFB -Project: TRAN 10: WRD 025-06 - WSS to Ayyappankovil Panchayat - Part II Contract No: Re-21/2022-23/SE/PHC/MVPA									
SCHEDULE OF WORK / ITEM(S) SI.N Description of Work / Item(s) No.of Qty Unit s Estim ated JOSEPH JOHN(GSTN- 32ACIPJ8820F1ZT)									
				Rate	Rate	Amount			
1.00	Appendix –A								
	KIIFB Project: TRAN 10: WRD025-06 - WSS to Ayyappankovil Panchayat -								
1.01	Design and construction of electrical control rooms at raw water pump house and treatment plant compound, supply, erection and commissioning of transformers and allied works (1) 500KVA at Thonithady raw water pump house,(2)400 KVA at WTP compound, supply erection and commissioning of motor pump sets at RWPH, treatment	1.00	LS	100.0 0	94043725.00	94043725.00			
2.00	APPENDIX -B KIIFB PROJECT: TRAN 10: WRD025- 06- WSS TO AYYAPPANKOVIL PANCHAYAT IN IDUKKI DISTRICT- PART II, PACKAGE II:- APPENDIX B(1)-Supply and laying 350mm and 300mm DI gravity main/ pumping main pipe from Alady GLSR to								
2.01	Procuring and supplying at site the required 350 mm DI K9 pipes bearing ISI mark as per IS 8329/2000	5248.00	m	100.0 0	6579.00	34526592.00			
2.02	Dodo- 300 mm DI K9 pipes with required specials -dodo-	1833.00	m	100.0 0	5354.00	9813882.00			
2.03	Procuring and supplying at site the required specials (suitable to site conditions) of same class including rubber gaskets bearing ISI mark as per	59.98	Quin tal	10.00	30000.00	1799460.00			
2.04	Procuring and supplying at site the required 350 mm CI Double Flanged Sluice Valve with Cap PN 1.6	2.00	Nos.	10.00	65000.00	130000.00			
2.05	Dodo- 300 mm CI PN 1.6 Sluice valves -dodo-	1.00	Nos.	10.00	55000.00	55000.00			
2.06	Dodo- 200 mm CI PN 1.6 Sluice valves -dodo-	5.00	Nos.	10.00	25000.00	125000.00			
2.07	Do- -do-100 mm Kinetic Air valve -do do-	6.00	Nos.	10.00	7000.00	42000.00			
2.08	Dodo-80 mm Kinetic Air valve -do do-	4.00	Nos.	10.00	5000.00	20000.00			
2.09	Working Charges Laying of 350 mm DI K9 pipes, valves & specials including all associated works, testing, commissioning and maintaining the pipeline including necessary anchor blocks, stream/bridge/culvert crossing arrangements, construction of valve chambers, surface box and P Tubes	5248.00	m	10.00	2500.00	13120000.00			

L1 Amount L1 Vendor

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	JOHN



2.10	Dodo- 300 mm DI K9 pipes, valves & specials -dodo-	1833.00	m	10.00	2000.00	3666000.00
2.11	Supply of Spare pipes and specials/valves for maintenance after guarantee period Supplying of 350mm DI K9 pipes bearing ISI mark as per IS 8329/2000	105.00	m	10.00	6579.00	690795.00
2.12	Dodo- 300mm DI K9 pipes -dodo-	37.00	m	10.00	5354.00	198098.00
3.00	APPENDIX B(2)-Supply and laying 300 mm DI pumping main from Kalthotty sump to Nariyanpara (Re-arranging) as		I			
3.01	Procuring and supplying at site the required 300 mm DI K9 pipes bearing ISI mark as per IS 8329/2000 specifications. (cost shall include cost	4830.00	m	10.00	5354.00	25859820.00
3.02	Procuring and supplying at site the required specials (suitable to site conditions) of same class including rubber gaskets bearing ISI mark as per	26.76	Quin tal	10.00	30000.00	802830.00
3.03	Procuring and supplying at site the required 300 mm CI Double Flanged Sluice Valve with Cap PN 1.6	2.00	Nos	10.00	55000.00	110000.00
	Dodo- 200 mm CI PN 1.6 Sluice valves -dodo-		Nos.	10.00	25000.00	100000.00
	Do- do-50 mm CI Single orifice Air valve (Large orifice) -do-do-	5.00	Nos.	10.00	1500.00	7500.00
3.06	Do- do-25 mm Single orifice Air valve(small orifice) do-do-	3.00	Nos.	10.00	1000.00	3000.00
3.07	Working Charges Laying of 300 mm DI K9 pipes, valves & specials including all associated works including necessary fencing, testing, commissioning and maintaining the pipeline including necessary anchor blocks, stream/bridge/culvert crossing arrangements, construction of valve chambers, surface box and P Tubes etc, as per the approved design and specifications where ever percessary	4830.00		10.00	2000.00	9660000.00
3.08	Supply of Spare pipes and specials/valves for maintenance after guarantee period Supplying of 300mm DI K9 pipes	97.00	m	10.00	5354.00	519338.00
4.00	APPENDIX B(3)-Supply and Laying 250mm DI pumping main from Nariyanpara to Idukki kavala (balance					
	Procuring and supplying at site the required 250 mm DI K9 pipes bearing ISI mark as per IS 8329/2000 specifications. (cost shall include cost	1165.00	m	10.00	4216.00	4911640.00
4.02	Procuring and supplying at site the required specials (suitable to site conditions) of same class including rubber gaskets bearing ISI mark as per	7.45	Quin tal	10.00	30000.00	223500.00
4.03	Procuring and supplying at site the required 250 mm CI Double Flanged Sluice Valve with Cap PN 1.6	3.00	Nos	10.00	30000.00	90000.00
4.04	Procuring and supplying at site the required 200 mm CI Double Flanged Sluice Valve with Cap PN 1.6	1.00	Nos	10.00	25000.00	25000.00
4.05	Do- do-25 mm Single orifice Air valve(small orifice) do-do-	3.00	Nos.	10.00	1000.00	3000.00

690795.00	Josep H John
198098.00	JOSEP H
25859820. 00	
802830.00	JOSEP H JOHN
110000.00	Josep H John
100000.00	JOSEP H
7500.00	JOSEP H
3000.00	JOSEP H
9660000.0 0	JOSEP H JOHN
519338.00	JOSEP H JOHN

3666000.0 JOSEP 0 H

4911640.0 0	Josep H John
223500.00	Josep H John
90000.00	Josep H John
25000.00	Josep H John
3000.00	JOSEP H



4.06	Laying of 250 mm DI K9 pipes, valves & specials including all associated works, testing, commissioning and maintaining the pipeline including necessary anchor blocks, stream/bridge/culvert crossing arrangements, construction of valve chambers, surface box and P Tubes	1165.00	Nos	10.00	1750.00	2038750.00	2038750.0 0	JOSEP H JOHN
4.07	Supply of Spare pipes and specials/valves for maintenance after guarantee period Supplying of 250mm DI K9 pipes bearing ISI mark	23.00	m	10.00	4216.00	96968.00	96968.00	JOSEP H JOHN
5.00	APPENDIX -C KIIFB PROJECT: TRAN 10: WRD025- 06- WSS TO AYYAPPANKOVIL PANCHAYAT IN IDUKKI DISTRICT-							
5.01	 (1)Supplying, laying and commissioning 80mm GI pumping main, (2)improvement work of Kalthotty sump& pump house, (3)construction of pipe line bridge,(4) design and construction of 1.00LL capacity sump& pump house at Nariyanpara, (5)providing wash water disposal pipe line at WTP Alady and interconnection works(6) Line stebilization and Interconnection works Supply and fixing 	1.00	LS	100.0	21644109.00	21644109.00	21644109. 00	

224326007.0 0

Total in Figures

Lowest Amount Quoted BY: JOSEPH JOHN(224326007.00)



eTendering System Government of Kerala
Created By: Liny Francis
Created Date/Time: 19-Sep-2022 04:57 PM
Tender Title: KIIFB Ayyappancovil
Tender ID: 2022_KWA_501579_1

Tender Inviting Authority: SUPERINTENDING ENGINEER, P.H.CIRCLE, MUVATTUPUZHA

Name of Work:KIIFB -Project: TRAN 10: WRD 025-06 - WSS to Ayyappankovil Panchayat - Part II ,Package I&II -Design and construction of electrical control rooms at raw water pump hour Contract No: Re-21/2022-23/SE/PHC/MVPA

	SCHEDULE OF WORK / ITEM(S)								
SI.No	SI.No Bidder Name Estimated Quoted Quoted Rate in Figures and Words								
		Rate	Percentage						
			Rate	Amount					
1.00	JOSEPH JOHN(GSTN-32ACIPJ8820F1ZT)	6584672.80	20.00	7901607.36	Seventy Nine Lakh One Thousand Six Hundred and	1			
					Seven				

Lowest Amount Quoted BY: JOSEPH JOHN(7901607.36)



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BOQ Summary Details Tender Title: KIIFB Ayyappancovil Tender ID: 2022_KWA_501579_1

Sheet Name	SI.No	Bidder Name	Amount	Bid Rank
BoQ1	1	JOSEPH JOHN	224326007.00	L1
BoQ2	1	JOSEPH JOHN	7901607.36	L1

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Tender Inviting Authority: SUPERINTENDING ENGINEER, P.H.CIRCLE, MUVATTUPUZHA

Name of Work:KIIFB -Project: TRAN 10: WRD 025-06 - WSS to Ayyappankovil Panchayat - Part II ,Package I&II -Design and construction of electrical control rooms at raw water pump house and treatment plant compound, supply, erection and commissioning of transformers and allied works (1) 500KVA at Thonithady raw water pump house,(2)400 KVA at WTP compound,(3) supply erection and commissioning of motor pump sets at RWPH, treatment plant sump pump house, Kalthotty pump house and Nariyanpara intermediate P H etc, (4)Supplying, laying and commissioning 80mm GI pumping main, (5)improvement workof Kalthotty sump& pump house, (6)construction of pipe line bridge,(7) design and construction of 1.00LL capacity sump& pump house at Nariyanpara, (8)providing washwater disposal pipe line at WTP Alady and interconnection works etc (9) Supply and laying 350mm and 300mm DI gravity main/ pumping main pipe from Alady GLSR to Kalthotty sump (Re-arranging), (10) Supply and laying 300 mm DI pumping main from Kalthotty sump to Nariyanpara (Re-arranging) (11) Supply and Laying 250mm DI pumping main from Nariyanpara to Idukki kavala (balance work re-arranging)

Contract No: Re-21/2022-23/SE/PHC/MVPA

Name of the Bidder/ Bidding Firm /	JOSEPH JOHN						
<u>PRICE SCHEDULE</u> (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent 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 #	NUMBER	TEXT #	NUMBER <mark>#</mark>	NUMBER <mark>#</mark>	TEXT <mark>#</mark>	
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	TOTAL AMOUNT With all Taxes but excluding GST in Rs. P		
1	2	4	5	13	53	55	



1	Appendix –A KIIFB Project: TRAN 10: WRD025-06 - WSS to Ayyappankovil Panchayat - Part II ,Package I				
1.01	Design and construction of electrical control rooms at raw water pump house and treatment plant compound, supply, erection and commissioning of transformers and allied works (1) 500KVA at Thonithady raw water pump house,(2)400 KVA at WTP compound, supply erection and commissioning of motor pump sets at RWPH, treatment plant sump pump house, Kalthotty pump house and Nariyanpara intermediate P H etc.as per scope of work and NIT	1	LS	94043725.00	INR Nine Crore Forty Lakh Forty Three Thousand Seven Hundred & Twenty Five Only
2	APPENDIX -B KIIFB PROJECT: TRAN 10: WRD025-06- WSS TO AYYAPPANKOVIL PANCHAYAT IN IDUKKI DISTRICT- PART II, PACKAGE II:- APPENDIX B(1)-Supply and laying 350mm and 300mm DI gravity main/ pumping main pipe from Alady GLSR to Kalthotty sump (Re-arranging) as per scope of work and NIT				
2.01	Procuring and supplying at site the required 350 mm DI K9 pipes bearing ISI mark as per IS 8329/2000 specifications.	5248	m	6579.00	INR Three Crore Forty Five Lakh Twenty Six Thousand Five Hundred



2.02	Dodo- 300 mm DI K9 pipes with required specials -dodo-	1833	m	5354.00		INR Ninety Eight Lakh Thirteen Thousand
2.03	Procuring and supplying at site the required specials (suitable to site conditions) of same class including rubber gaskets bearing ISI mark as per IS 8329/2000 specifications.	59.982	Quintal	30000.00	1799460.00	INR Seventeen Lakh Ninety Nine Thousand Four Hundred & Sixty Only
2.04	Procuring and supplying at site the required 350 mm CI Double Flanged Sluice Valve with Cap PN 1.6 Conforming to IS 14846 - 2000, specifications.	2	Nos.	65000.00	130000.00	INR One Lakh Thirty Thousand Only
2.05	Dodo- 300 mm CI PN 1.6 Sluice valves - dodo-	1	Nos.	55000.00	55000.00	INR Fifty Five Thousand Only
2.06	Dodo- 200 mm CI PN 1.6 Sluice valves - dodo-	5	Nos.	25000.00		INR One Lakh Twenty Five Thousand Only
2.07	Dodo-10 0 mm Kinetic Air valve -do do-	6	Nos.	7000.00	42000.00	INR Forty Two Thousand Only
2.08	Dodo-80 mm Kinetic Air valve -dodo-	4	Nos.	5000.00		INR Twenty Thousand Only



2.09	Warking	5248.000		2500.00	12120000 00	NID One Change Thinter
2.09	Working Charges	3248.000	111	2500.00	13120000.00	INR One Crore Thirty
	Laying of 350 mm DI K9 pipes, valves &					One Lakh Twenty
	specials including all associated works,					Thousand Only
	testing, commissioning and maintaining the					
	pipeline including necessary anchor blocks,					
	stream/bridge/culvert crossing arrangements,					
	construction of valve chambers, surface box					
	and P Tubes etc, as per the approved design					
	and specifications where ever necessary etc.,					
	complete including cost of cement and steel.					
2.1	Dodo- 300 mm DI K9 pipes, valves &	1833.000	m	2000.00	3666000.00	INR Thirty Six Lakh
	specials -dodo-					Sixty Six Thousand
	-					Only
2.11	<u>Supply</u> <u>of</u> <u>Spare pipes</u> and	105	m	6579.00	690795.00	INR Six Lakh Ninety
	<u>specials/valves</u> <u>for</u> <u>maintenance</u> <u>after</u>					Thousand Seven
	guarantee period Supplying					Hundred & Ninety Five
	of 350mm DI K9 pipes bearing ISI mark as					Only
	per IS 8329/2000 specifications. (cost shall					•
	include cost of specials as per NIT vol II)					
2.12	Dodo- 300mm DI K9 pipes -dodo-	37	m	5354.00	198098.00	INR One Lakh Ninety
						Eight Thousand
						&Ninety Eight Only
3	APPENDIX B(2)-Supply and laying 300					
	mm DI pumping main from Kalthotty					
	sump to Nariyanpara (Re-arranging) as					
	per scope of work and NIT					
	F					



3.01 3.00 300 mm DI K9 pipes bearing ISI mark as per IS 8329/2000 specifications. (cost shall include cost of specials as per NIT vol II)4830.000 m5354.00 specials (suitable to specials as per NIT vol II)25859820.00 Lakh Fithy Nine Thousand Eight Hundred & Twenty Only3.02Procuring and supplying at site the required specials (suitable to site conditions) of same class including rubber gaskets bearing ISI mark as per IS 8329/2000 specifications.26.761Quintal30000.00802830.00INR Eight Lakh Two Thousand Eight Hundred & Thirty Only3.03Procuring and supplying at site the required 300 mm CI Double Flanged Sluice Valve with Cap PN 1.6 Conforming to IS 14846 - 2000, specifications.2.000Nos55000.00110000.00INR One Lakh Ten Thousand Only3.04Do- do-200 mm CI PN 1.6 Sluice valves - (Large orifice) -do-do-4Nos.25000.00100000.00INR One Lakh Only3.05Do- do-50 mm CI Single orifice Air valve (Large orifice) -do-do-5Nos.11000.00INR Seven Thousand Five Hundred Only3.06Do- do-25 mm Single orifice Air valve(small orifice) do-do-3Nos.10000.00INR Three Thousand Only							
specials (suitable to site conditions) of same class including rubber gaskets bearing ISI mark as per IS 8329/2000 specifications.Thousand Eight Hundred & Thirty Only3.03Procuring and supplying at site the required 300 mm CI Double Flanged Sluice Valve with Cap PN 1.6 Conforming to IS 14846 - 2000, specifications.2.000 Nos55000.00110000.00INR One Lakh Ten Thousand Only3.04Dodo- 200 mm CI PN 1.6 Sluice valves - dodo-4Nos.25000.00100000.00INR One Lakh Only3.05Do- do-50 mm CI Single orifice Air valve (Large orifice) -do-do-5Nos.1500.007500.00INR Seven Thousand Five Hundred Only3.06Do- do-25 mm Single orifice Air3Nos.1000.003000.00INR Three Thousand	3.01	300 mm DI K9 pipes bearing ISI mark as per IS 8329/2000 specifications. (cost shall	4830.000	m	5354.00	25859820.00	Eight Lakh Fifty Nine Thousand Eight Hundred & Twenty
300 mm CI Double Flanged Sluice Valve with Cap PN 1.6 Conforming to IS 14846 - 2000, specifications.Thousand Only3.04Dodo- 200 mm CI PN 1.6 Sluice valves - dodo-4Nos.25000.00100000.00INR One Lakh Only3.05Do- do-50 mm CI Single orifice Air valve (Large orifice) -do-do-5Nos.1500.007500.00INR Seven Thousand Five Hundred Only3.06Do- do-25 mm Single orifice Air3Nos.1000.003000.00INR Three Thousand	3.02	specials (suitable to site conditions) of same class including rubber gaskets bearing ISI	26.761	Quintal	30000.00	802830.00	Thousand Eight
dodo-dodo-dodo-dodo-3.05Do- do-50 mm CI Single orifice Air valve (Large orifice) -do-do-5Nos.1500.007500.00INR Seven Thousand Five Hundred Only3.06Do- do-25 mm Single orifice Air3Nos.1000.003000.00INR Three Thousand	3.03	300 mm CI Double Flanged Sluice Valve with Cap PN 1.6 Conforming to IS 14846 -	2.000	Nos	55000.00	110000.00	
(Large orifice) -do-do- Image: Constraint of the second secon	3.04		4	Nos.	25000.00	100000.00	INR One Lakh Only
	3.05	0	5	Nos.	1500.00		
	3.06	-	3	Nos.	1000.00	3000.00	



r			1			
3.07	Working Charges	4830.000	m	2000.00		INR Ninety Six Lakh
	Laying of 300 mm DI K9 pipes, valves &					Sixty Thousand Only
	specials including all associated works					
	including necessary fencing, testing,					
	commissioning and maintaining the pipeline					
	including necessary anchor blocks,					
	stream/bridge/culvert crossing arrangements,					
	construction of valve chambers, surface box					
	and P Tubes etc, as per the approved design					
	and specifications where ever necessary etc.,					
	complete including cost of cement and steel.					
3.08	<u>Supply</u> of <u>Spare</u> pipes and	97.000	m	5354.00	519338.00	INR Five Lakh
	specials/valves for maintenance after					Nineteen Thousand
	guarantee period Supplying of					Three Hundred & Thirty
	300mm DI K9 pipes bearing ISI mark as per					Eight Only
	IS 8329/2000 specifications.					
4	APPENDIX B(3)-Supply and Laying					
	250mm DI pumping main from					
	Nariyanpara to Idukki kavala (balance					
	work re-arranging) as per scope of work					
	and NIT					
4.01	Procuring and supplying at site the required	1165.000	m	4216.00	4911640.00	INR Forty Nine Lakh
	250 mm DI K9 pipes bearing ISI mark as per					Eleven Thousand Six
	IS 8329/2000 specifications. (cost shall					Hundred & Forty Only
	include cost of specials as per NIT vol II)					·····



4.02	Procuring and supplying at site the required specials (suitable to site conditions) of same class including rubber gaskets bearing ISI mark as per IS 8329/2000 specifications.	7.450	Quintal	30000.00	223500.00	INR Two Lakh Twenty Three Thousand Five Hundred Only
4.03	Procuring and supplying at site the required 250 mm CI Double Flanged Sluice Valve with Cap PN 1.6 Conforming to IS 14846 - 2000, specifications.	3.000		30000.00	90000.00	INR Ninety Thousand Only
4.04	Procuring and supplying at site the required 200 mm CI Double Flanged Sluice Valve with Cap PN 1.6 Conforming to IS 14846 - 2000, specifications.	1.000	Nos	25000.00	25000.00	INR Twenty Five Thousand Only
4.05	Do- do-25 mm Single orifice Air valve(small orifice) do-do-	3	Nos.	1000.00	3000.00	INR Three Thousand Only
4.06	Laying of 250 mm DI K9 pipes, valves & specials including all associated works, testing, commissioning and maintaining the pipeline including necessary anchor blocks, stream/bridge/culvert crossing arrangements, construction of valve chambers, surface box and P Tubes etc, as per the approved design and specifications where ever necessary etc., complete including cost of cement and steel.	1165.000	Nos	1750.00	2038750.00	INR Twenty Lakh Thirty Eight Thousand Seven Hundred & Fifty Only



4.07	Supply of Spare pipes and specials/valves for maintenance after guarantee period Supplying of 250mm DI K9 pipes bearing ISI mark as per IS 8329/2000 specifications.	23.000	m	4216.00	96968.00	INR Ninety Six Thousand Nine Hundred & Sixty Eight Only
5	APPENDIX -C KIIFB PROJECT: TRAN 10: WRD025-06- WSS TO AYYAPPANKOVIL PANCHAYAT IN IDUKKI DISTRICT- PART II, PACKAGE II:-					
5.01	(1)Supplying, laying and commissioning 80mm GI pumping main, (2)improvement work of Kalthotty sump& pump house, (3)construction of pipe line bridge,(4) design and construction of 1.00LL capacity sump& pump house at Nariyanpara, (5)providing wash water disposal pipe line at WTP Alady and interconnection works(6) Line stebilization and Interconnection works,Supply and fixing Electromagnetic flow meter etc. (as per scope of work and NIT	1	LS	21644109.00		INR Two Crore Sixteen Lakh Forty Four Thousand One Hundred & Nine Only
Total in Fig	gures				224326007.00	INR Twenty Two Crore Forty Three Lakh Twenty Six Thousand &Seven Only



Quoted Rate in Words	INR Twenty Two Crore Forty Three Lakh Twenty Six Thousand &Seven Only



Validate	Print	Help



Tender Inviting Authority: SUPERINTENDING ENGINEER, P.H.CIRCLE, MUVATTUPUZHA

Name of Work:KIIFB -Project: TRAN 10: WRD 025-06 - WSS to Ayyappankovil Panchayat - Part II ,Package I&II -Design and construction of electrical control rooms at raw water pump house and treatment plant compound, supply, erection and commissioning of transformers and allied works (1) 500KVA at Thonithady raw water pump house,(2)400 KVA at WTP compound,(3) supply erection and commissioning of motor pump sets at RWPH, treatment plant sump pump house, Kalthotty pump house and Nariyanpara intermediate P H etc, (4)Supplying, laying and commissioning 80mm GI pumping main, (5)improvement workof Kalthotty sump& pump house, (6)construction of pipe line bridge,(7) design and construction of 1.00LL capacity sump& pump house at Nariyanpara, (8)providing washwater disposal pipe line at WTP Alady and interconnection works etc (9) Supply and laying 350mm and 300mm DI gravity main/ pumping main pipe from Alady GLSR to Kalthotty sump (Re-arranging), (10) Supply and laying 300 mm DI pumping main from Kalthotty sump to Nariyanpara (Re-arranging) (11) Supply and Laying 250mm DI pumping main from Nariyanpara to Idukki kavala (balance work re-arranging)

Contract No: Re-21/2022-23/SE/PHC/MVPA

Name of the	JOSEPH JOHN
Bidder/	
Bidding Firm	
/ Company :	
	PRICE SCHEDULE

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent 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 #	NUMBER	TEXT	NUMBER	NUMBER #	TEXT #
SI. No.	Item Description	Quantity	Units		TOTAL AMOUNT With all Taxes But excluding GST in Rs. P	
1	2	4	5	6	53	55



6					
	Appendix B- (9) - Road restoration works-(a) PWD ro	ad			
6.01	Removal of unserviceable soil including excavation, loading and disposal upto 1000 metres lead but excluding replacement by suitable soil which shall be paid separately (PWD sanctioned price rate-specification code- 3.11)	1246.875	cum	47.61	INR Fifty Nine Thousand Three Hundred & Sixty Three and Paise Seventy Two Only
6.02	Maintenance of Earthen Shoulder (filling with fresh soil) Making up loss of material/ irregularities on shoulder to the design level by adding fresh approved soil and compacting it with appropriate equipment.(PWD sanctioned rate-specification code- 10.2)	4987.500	sqm	41.25	INR Two Lakh Five Thousand Seven Hundred & Thirty Four and Paise Thirty Eight Only
6.03	Construction of granular sub-base by providing 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 vibratory roller to achieve the desired density, complete as per clause 401. Grading-IV - For lower sub base - Mix in Place Method (PWD sanctioned rate-specification code-4.2.A2)	225.000	cum	3178.82	INR Seven Lakh Fifteen Thousand Two Hundred & Thirty Four and Paise Fifty Only
6.04	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.(PWD sanctioned rate-specification code- 4.12)	150.000	cum	3344.36	INR Five Lakh One Thousand Six Hundred & Fifty Four Only



6.05	Prime Coat- Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.7kg/sqm using mechanical means.(PWD sanctioned rate- specification code-5.1)	1500.000	sqm	54.39	INR Eighty One Thousand Five Hundred & Eighty Five Only
6.06	Supplying and stacking 12mm hard blue granite broken stone in standard heaps for measurement(IRC 3.2.1.a)- PWD sanctioned rate- specification code- 55.2	40.500		2631.07	INR One Lakh Six Thousand Five Hundred & Fifty Eight and Paise Thirty Four Only
6.07	Supplying and stacking 6mm hard blue granite broken stone in standard heaps for measurement(IRC 3.2.1.a)- PWD sanctioned rate- specification code- 55.3	13.500	cum	2631.07	INR Thirty Five Thousand Five Hundred & Nineteen and Paise Forty Five Only
6.08	Supplying and stacking 36mm size hard broken stone in standard heaps for measurement.(PWD sanctioned rate- specification code- 55.4)	150.000	cum	2537.36	INR Three Lakh Eighty Thousand Six Hundred & Four Only
6.09	Providing, laying and rolling of open graded premix carpet of 20 mm thickness with 0.27 cum of 12 mm departmental aggregates premixed with 12.96 kg of bitumen per 10 sqm using penetration grade bitumen to required line, grade and level on a previously prepared base, after priming the existing surface with 5 kg of bitumen (VG 30) 10 sqm including mixing in a suitable plant, laying and rolling with a three wheel static roller of 80-100 KN capacity, finished to required level and grades,followed by a seal coat of 0.09 cum of 6 mm departmental aggregates premixed with 8.64 kg of bitumen per 10 sqm.By Manual Means- PWD sanctioned rate-specification code-55.1.a	1500.000	sqm	192.02	INR Two Lakh Eighty Eight Thousand &Thirty Only



6.1	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.(PWD sanctioned rate- specification code- 12.4)	196.875	cum	7032.06		INR Thirteen Lakh Eighty Four Thousand Four Hundred & Thirty Six and Paise Eighty One Only
6.11	CPlain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications PCC Grade M20 (Without formwork) -PWD sanctioned rate- spcification code-12.8.b	98.438	cum	8523.47		INR Eight Lakh Thirty Nine Thousand &Thirty Three and Paise Thirty Four Only
7	Appendix B - (9) - Road restoration works- (b) Village	e/ Panchavat	/ PMGS	roads (
7.01	Construction of granular sub-base by providing 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 vibratory roller to achieve the desired density, complete as per clause 401. Grading-IV - For lower sub base - Mix in Place Method (PWD sanctioned rate-specification code-4.2.A2)	154.688		3178.82	491725.31	INR Four Lakh Ninety One Thousand Seven Hundred & Twenty Five and Paise Thirty One Only
7.02	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.(PWD sanctioned rate-specification code- 4.12)	103.125	cum	3344.36	344887.13	INR Three Lakh Forty Four Thousand Eight Hundred & Eighty Seven and Paise Thirteen Only



7.03	Prime Coat- Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.7kg/sqm using mechanical means.(PWD sanctioned rate- specification code-5.1)	1031.250		54.39	INR Fifty Six Thousand &Eighty Nine and Paise Sixty Nine Only
7.04	Supplying and stacking 12mm hard blue granite broken stone in standard heaps for measurement(IRC 3.2.1.a)- PWD sanctioned rate- specification code- 55.2	27.845		2631.07	INR Seventy Three Thousand Two Hundred & Sixty Two and Paise Fourteen Only
7.05	Supplying and stacking 6mm hard blue granite broken stone in standard heaps for measurement(IRC 3.2.1.a)- PWD sanctioned rate- specification code- 55.3	9.282	cum	2631.07	INR Twenty Four Thousand Four Hundred & Twenty One and Paise Fifty Nine Only
7.06	Supplying and stacking 36mm size hard broken stone in standard heaps for measurement.(PWD sanctioned rate- specification code- 55.4)	92.813	cum	2537.36	INR Two Lakh Thirty Five Thousand Four Hundred & Ninety Nine and Paise Ninety Nine Only
7.07	Providing, laying and rolling of open graded premix carpet of 20 mm thickness with 0.27 cum of 12 mm departmental aggregates premixed with 12.96 kg of bitumen per 10 sqm using penetration grade bitumen to required line, grade and level on a previously prepared base, after priming the existing surface with 5 kg of bitumen (VG 30) 10 sqm including mixing in a suitable plant, laying and rolling with a three wheel static roller of 80-100 KN capacity, finished to required level and grades,followed by a seal coat of 0.09 cum of 6 mm departmental aggregates premixed with 8.64 kg of bitumen per 10 sqm.By Manual Means- PWD sanctioned rate-specification code-55.1.a	1031.250	sqm	192.02	INR One Lakh Ninety Eight Thousand &Twenty and Paise Sixty Three Only



7.08	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)	67.500	cum	8340.93		INR Five Lakh Sixty Three Thousand &Twelve and Paise Seventy Eight Only
Total in Figu	res					INR Sixty Five Lakh Eighty Four Thousand Six Hundred & Seventy Two and Paise Eighty Only
Quoted Rate	in Figures		Exce ss (+)	20.00%	7901607.36	INR Seventy Nine Lakh One Thousand Six Hundred &
Quoted Rate	in Words	INR Sev	enty N	Nine Lakh	One Thousand Only	Six Hundred & Seven



COMMERCIAL DETAILS OF THE TENDER To be accompanied with Tender

1. General details

Tender No.	Re-E-Tender No.21/2022-23/SE/PHC/MVPA due on 19.08.2022 .
Name of Scheme	KIIFB-Project-TRAN 10:WRD 025-06-WSS to Ayyappankovil Panchayath-Part II Package I&II-
Category of Scheme	KIIFB
Name of Work	Design and construction of electrical control rooms at raw water pump house and treatment plant compound, supply, erection and commissioning of transformers and allied works(1) 500 KVA at Thonithady raw water pump house,(2) 400 KVA at WTP compound(3) Supply erection and commissioning of motor pump sets at RWPH, treatment plant sump pumphouse,Kalthotty pump house and Nariyanpara intermediate pump house etc,(4) supplying,laying and commissioning 80 mm GI pumping main(5) improvement work of Kalthotty sump& pump house,(6) construction of pipe line bridge,(7) design and construction of 1.00 LL capacity sump& pump house at Nariyanpara,(8) providing washwater disposal pipe line at WTP Alady and interconnection works etc(9) Supply and laying 350 mm and 300 mm DI gravity main/pumping main pipe from Alady GLSR to Kalthotty sump to Nariyanpara(Re-arranging)(11)Supply and Laying 250 mm DI pumping main from Nariyanpara to Idukki Kavala(balance work re-arranging)-

2. Administrative Sanction details

Sl. No.	Administrative	Sanction No.	dated	Amount
1	AS No GO(Rt) No.34/2018/ WRD dated 17.01.2018.from water resources department.Order No.WRD025-06-PA-01 dated 13.11.2018 of the Chief Engineer,KIIFB,Thiruvananthapuram		17.01.2018.	Rs. 46.424 Crores
Administrative Sanction - Total Amoun			- Total Amount	Rs. 46.424 Crores
	Cumulative Expenditure of the Scheme in lakhs			Nil

3. Technical Sanction details

Technical Sanction No Latest	T.S./2021-22/2018/13138 (Reg.No.8668/2025-23) dated 29.06.2022 of Chief Engineer (CR) for an amount of Rs.633.20 Lakhs& T.S./2021- 22/2018/13980(Reg.No.8666/2022-23) dated29.06.2022 of Chief Engineer (CR) for an amount of Rs.1431 Lakhs
TS Sanction issued by	The Chief Engineer (CR), Kochi - 11.



TS Amount	Rs.633.20 Lakhs &Rs.1431 Lakhs			
Population benefited				
Details of Source Adequacy Certified by CE	NA	NA		

4. Tender Dates and Amount

S1. No.	Particulars	Remarks
1	Estimate Amount	2064.20 Lakhs
2	SOR adopted	DSR2018
3	Tendered PAC	16,82,76,029
4	Tender Date	29.07.2022
5	Due Date	19.8.2022
6	Expiry date of firm period	18.12.2022
7	Type of Tender (LS / Schedule)	L S including schedule
8	Nature of Tendering (e-tender/others)	e-tender
9	No. of Prequalified Tenderers	1 No
10	No. of Tender Form purchased	2 No
11	No. of Tender Received	2 No
12	Completion Period of this Work	12 months
13	Proposed Completion date of Scheme	31.12.23
14	Name of Division	Project Division, Kattappana
15	Name of Circle	P.H. Circle, Muvattupuzha
16	Tender invited by	Superintending Engineer, P.H. Circle, Muvattupuzha
17	Name of Tendering Officer	Sri. Muhammed Rafi.A

5. Scope of Work

Design and construction of electrical control rooms at raw water pump house and treatment plant compound, supply, erection and commissioning of transformers and allied works(1) 500 KVA at Thonithady raw water pump house,(2) 400 KVA at WTP compound(3) Supply erection and commissioning of motor pump sets at RWPH, treatment plant sump pumphouse,Kalthotty pump house and Nariyanpara intermediate pump house etc,(4) supplying,laying and commissioning 80 mm GI pumping main(5) improvement work of Kalthotty sump& pump house,(6) construction of pipe line bridge,(7) design and construction of 1.00 LL capacity sump& pump house at Nariyanpara,(8) providing washwater disposal pipe line at WTP Alady and interconnection works etc(9) Supply and laying 350 mm and 300 mm DI gravity main/pumping main pipe from Alady GLSR to Kalthotty sump(Re-arranging)(10) Supply and laying 300mm DI pumping main from Kalthotty sump to Nariyanpara(Re-arranging)(11)Supply and Laying 250 mm DI pumping main from Nariyanpara to Idukki Kavala(balance work re-arranging)-

Sequence of tender and	PAC	Due date	Reason for Cancellation
re-tender	1110		



Re-tender No.39/2020- 21//SE/PHC/MVPA due dt.03/02/2021	Rs.48329630	03.02.2021	Non participation of bidders
21//SE/PHC/MVPA due dt.15/02/2021 extended to 22/03/2021	Rs.48329630	22.03.2021	Cancelled due to high rate
21//SE/PHC/MVPA due dt.09/02/2021 extended to 15/02/2021	Rs.22111504	15.02.2021	Non participation of bidders
21//SE/PHC/MVPA due dt.09/02/2021 extended to 15/02/2021	Rs.67082180	15.02.2021	Non participation of bidders. Hence cancelled to re arrange the work in global tender.
21//SE/PHC/MVPA due dt.15/02/2021 extended to 22/03/2021	Rs.22111504	15.04.2021	Non participation of bidders
Re-tender No.53/2020- 21/SE/PHC/MVPA due date on 08/03/2021 extended to 22/03/2021,29/03/2021, 15/04/2021	Rs.67082180	15.04.2021	Non participation of bidders. Hence cancelled to re arrange the work in global tender.
Re-tender No.02/2020- 21/SE/PHC/MVPA due date on 25/06/2021 extended to 12/07/2021 & 28/07/2021	Rs.140845248	28.07.2021	Only one bidder participated. Cancelled vide proceedings No. KWA/SE/PHC/MVPA/DI/T- 02/2021 dtd. 28/07/2021
Re-tender No.05/2020- 21/SE/PHC/MVPA due date on 21/09/2021 extended to 25/09/2021	Rs.140845248	25.09.2021	Single bid. Cancelled tender & directed to revised the estimate as per DSR 2018 and to retender
Tender No.07/2021- 22/SE/PHC/MVPA due date on 14/12/2021	Rs. 151854441	14.12.2021.	1st tender call in DSR 2018 2 offers received. Tender cancelled as one bidder not pre qualify andhence became single tender



Tender No.21/2021- 22/SE/PHC/MVPA due date on 05/02/2022 extended to 11/02/2022	Rs.151854441	17.12.21	Only one bidder participated andrate quoted too high (53.25%).Since quoted rate is very highcommittee decided to cancel thetender and direct SE to verify andprepare realistic estimate basedon site condition.
Tender No.13/2022- 23/SE/PHC/MVPA due date on 25/07/2022	Rs.168276029	27-07-2022	No bidders participated. Hence tender cancelled by SE vide orderNo. SE/PHC/MVPA/DB4/T- 13/2022 Dtd. 27/07/2022
Tender No.21/2022- 23/SE/PHC/MVPA due date on 19/08/2022 (current tender)	Rs.168276029	19.08.2022 .	This Tender

6. Re-Tender Details

Tender No.21/2022- 23/SE/PHC/MVPA due date on 19/08/2022 (current tender)	Rs.168276029	19.08.2022 .	This Tender
Second re-tender			N A
Third re-tender			
Fourth re-tender			

7. Publicity Details

Sl. No.	Name of Daily	Language	Appeared on date
1	etenders.gov.in	English	30.07.2022
2	Kerala Kaumuthi (All Kerala Edition)	Malayalam	
3	Mathrubhumi (All Kerala Edition)	Malayalam	On or before 30/07/2022



4	Business Standard (All India Edition)	English	
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8. Li	ist of 1	enderers	with	Quoted Amo	ount	

Sl. No.	Name of Tenderers	Tendered PAC	Quoted Amount in Rs.	% Excess / Below	
		Rs.	Rs		
1	Sri.Joseph John, ,	168276029	232227614.36	38 % above	

9. Details of Lowest Tender Compared with PAC

	U				
Sl. No	Items	Tendered PAC Rs.	Quoted Amount Rs	Comparison in %	Remarks
1	Lowest	168276029.00	232227614.36	38 % above	

10. Rate Analysis of pipes with Lowest Tender

Sl. No.	Type of Pipe	Unit	Quantity in M	Rate as per DSR 2014/m	Quoted Rate/m	Comparison in %
1	NA	NA	NA	NA	NA	NA
Negotiated by		Negotiate	ed amount			

12. Recommendation

Recommendation of SE	Recommendation of CE
Single offer received may be approved	
Superintending Engineer	Chief Engineer









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2064.2

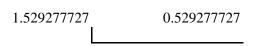


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16-12-2017 10:00





224326007.00

7901607.36

232227614.36

1.380039782



TECHNICAL STATUS OF THE SCHEME

		•	To be accompanied with tender document									
Tend	ler Number	Re-E-Tender	No.21/2022-23/SE/PHC/MVPA due on 19.08.2022	2								
Nam	e of Scheme	KIIFB-Projec	t-TRAN 10:WRD 025-06-WSS to Ayyappankovi	l Panc	hay	ath-I	art	II Packa	ge Ið	kII-		
Nam	e of Work	erection and o KVA at WTI pumphouse,K 80 mm GI pu design and co line at WTP main pipe fro Kalthotty sur	onstruction of electrical control rooms at raw v commissioning of transformers and allied works P compound(3) Supply erection and commission failthotty pump house and Nariyanpara intermed imping main(5) improvement work of Kalthotty onstruction of 1.00 LL capacity sump& pump ho Alady and interconnection works etc(9) Supply om Alady GLSR to Kalthotty sump(Re-arrangin np to Nariyanpara(Re-arranging)(11)Supply and a(balance work re-arranging)-	(1) 50 ning o iate pr sump ouse a and la ng)(10	0 K f m ump & p t N uyin) Su	VA a otor o hou: oump ariya g 350 upply	t T pun se et hou npa mr an	honithady np sets at tc,(4) sup nse,(6) coi ra,(8) pro n and 30 d laying	y rav t RV plyin nstru ovidi 0 mr 300n	v water pr VPH, trea Ing, laying a Ing washw Ing washw Ing DI grav Inm DI pu	umj tme ind oipe vate vity inp	b house,(2) 400 nt plant sump commissioning line bridge,(7) r disposal pipe main/pumping ing main from
Sl. No.	Components	Whether this component is included in the scheme. Yes/ No	Total Quantity included as per TS					Present T Quantity		To be Arrang Quantity	ed	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Check dams / Bunds	Yes	Package-III									Selection Notice Issued
2	Raw water Intake	Yes										Existing
3	Well Cum Pump house	Yes	1									Existing
4	Raw Water Pump house/pumping main	Yes										Included in
			1		1		1	1	1	1	1	this Tender
5	Raw Water Pump Sets	Yes										



7 Raw Water Pipe/Pumping main do Package-II	completed except the reaches arranged in Package-II
8 Water Treatment Plant Yes	Existing
9 Clear Water Sump do	Enjeting
10 Clear Water Pump House Yes	Existing
11 Clear Water Pump Sets Yes Package-II Image: Clear Water Pump Sets	Included in
12 Substation at CWPH No	this Tender
13 Clear Water Pumping Main No	completed except the reaches arranged in Package-II
14 Elevated Service Reservoir No	
15 CW Transmission Main Yes	completed
16 Booster / Lifting Station No Intermediate sump at Nariampara	Included in
17 Booster / Lifting Pump set No	this Tender
18 Ground Level Tanks	Completed
19 Over Head Tanks No	NIL
20 Distribution MS Pipe Yes	
21 Distribution CI Pipe	



22	Distribution DI Pipes	Yes					
23	Distribution GI Pipes	Yes					Completed
24	Distribution PVC Pipes	Yes					
25	Distribution others	Yes					
26	Distribution TOTAL	Yes					
	Any Other Components	Nil					

Superintending Engineer

Chief Engineer



KERALA WATER AUTHORITY Details to be submitted to the Tender Committee for evaluating the Tenders

Name of Circle: P.H. Circle, Muvattupuzha Name of Work : KIIFB-Project-TRAN 10:WRD 025-06-WSS to Ayyappankovil Panchayath-Part II Package I&II-

Re- E-Tender No.21/2022-23/SE/PHC/MVPA due on 19.08.2022

Name of Scheme under which the work is to be awarded :

Design and construction of electrical control rooms at raw water pump house and treatment plant compound, supply, erection and commissioning of transformers and allied works(1) 500 KVA at Thonithady raw water pump house,(2) 400 KVA at WTP compound(3) Supply erection and commissioning of motor pump sets at RWPH, treatment plant sump pumphouse,Kalthotty pump house and Nariyanpara intermediate pump house etc.(4) supplying,laying and commissioning 80 mm GI pumping main(5) improvement work of Kalthotty sump& pump house,(6) construction of pipe line bridge,(7) design and construction of 1.00 LL capacity sump& pump house at Nariyanpara,(8) providing washwater disposal pipe line at WTP Alady and interconnection works etc(9) Supply and laying 350 mm and 300 mm DI gravity main/pumping main pipe from Alady GLSR to Kalthotty sump(Re-arranging)(10) Supply and laying 300mm DI pumping main from Kalthotty sump to Nariyanpara(Re-arranging)(1)/Supply and Laying 250 mm DI pumping main from Nariyanpara to Idukki Kavala(balance work re-arranging)-

							Funds rec completing				
Details for	Original Estimate Amount	Revised Estimate Amount	A.S. & T.S. No. and Date	Expenditure till Prev. fin. Year (including Materials)	Expenditure during this year (including Materials)	Total expenditure till date (including materials)	For supply works	For future expenditu re	Budget provision for the year	Anticipated date of completion	Remarks if any
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
1. The present work	2064.20 Lakhs	Nil.	AS No GO(Rt) No.34/2018/ WRD dated 17.01.2018.from water resources department.Order No.WRD025-06-PA-01 dated 13.11.2018 of the Chief Engineer,KIIFB,Thiruvananthapuram T.S./2021-22/2018/13138 (Reg.No.8668/2025-23) dated 29.06.2022 of Chief Engineer (CR) for an amount of Rs.633.20 Lakhs& T.S./2021- 22/2018/13980(Reg.No.8666/2022-23) dated29.06.2022 of Chief Engineer (CR) for an amount of Rs.1431 Lakhs	Nil	Nil	0.52				31.12.2023	
2. The entire Scheme	Rs.46.424 C	r			•						
Details of Tenders:											
Date of Publication of Tender Notice	No. of Tender documents sold	No. of tender document s Received	Name of Tenderer Recommended	Estimated PAC	Quoted PAC	<u>% of excess</u>	Whether c C rates fo	0f	If not Why?		iod tender/ tation
Kerala Kaumuthi (All Kerala Edition),Mathrubhumi (All Kerala Edition),Business Standard (All India Edition)On or before 30/07/2022	2	2	Sri.Joseph John	168276029	23222614.36	38 % above	DSR	2018		18.1	2.2022

a) What are the efforts taken to get the rates reduced and the result?:

b) Justification for large variation (if any, between the estimated and quoted PAC)

c) Whether re-tender is advisable, and if not, why?

Any other remarks

Reason for delay if any submitting the tender to H.O.

Recommendations of the Superintending Engineer

Recommendations of the Chief Engineer

Forwarded to H.O. on

: As the quoted rate is 38 % above the tendered PAC, tender may be sanctioned at suitable rate.

: NA

: No, This work is tendered several times, But no reasonable rate received,

No delay

Recommend for sanction

Superintending Engineer



KERALA WATER AUTHORITY, P.H.CIRCLE, MUVATTUPUZHA

CHECK LIST

KIIFB-Project-TRAN 10:WRD 025-06-WSS to Ayyappankovil Panchayath-Part II Package I&II-

Name of Work:- KIIFB-Project-TRAN 10:WRD 025-06-WSS to Ayyappankovil Panchayath-Part II Package I&II-Design and construction of electrical control rooms at raw water pump house and treatment plant compound, supply, erection and commissioning of transformers and allied works(1) 500 KVA at Thonithady raw water pump house,(2) 400 KVA at WTP compound(3) Supply erection and commissioning of motor pump sets at RWPH, treatment plant sump pumphouse,Kalthotty pump house and Nariyanpara intermediate pump house etc,(4) supplying,laying and commissioning 80 mm GI pumping main(5) improvement work of Kalthotty sump& pump house,(6) construction of pipe line bridge,(7) design and construction of 1.00 LL capacity sump& pump house at Nariyanpara,(8) providing washwater disposal pipe line at WTP Alady and interconnection works etc(9) Supply and laying 350 mm and 300 mm DI gravity main/pumping main pipe from Alady GLSR to Kalthotty sump(Re-arranging)(10) Supply and laying 300mm DI pumping main from Kalthotty sump to Nariyanpara(Re-arranging)(11)Supply and Laying 250 mm DI pumping main from Nariyanpara to Idukki Kavala(balance work re-arranging)-

		Yes	No.
1	Whether the timeframe stipulated vide circular dated 29/07/2013 is complied	Yes	
2	Copy of Administrative Sanction(AS)/Revised AS	Yes	
3	Copy of Technical Sanction(TS)/Revised TS	Yes	
4	Whether duly filled up proforma submitted with specific recommendation of SE/CE	Yes	
5	Whether Tendered PAC is excluding Excise Duty (Details to be submitted separately)	NA	
6	Whether Copy of Sanctioned Estimate furnished	Yes	
7	Whether Publicity Details submitted	Yes	
-	(Details to be furnished separately)		
8	Whether details/documents substantiating financial standing of the tendered submitted	Yes	



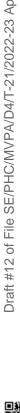
9	Whether experience cerfificates submitted to Head Office contain the following as per NIT a) Date of award of work for which experience - certificate is issued- b)Date of Agreement- c)Period of completion as per Agreement- d)Actual date of completion:	Yes	
10	Whether justification/Specific recommendation/urgency in case of high quoted rate furnished as per order/circular	Yes	
11	Whether Rate Comparison with DSR/LMR excluding Excise Duty submitted with Abstract of DSR /LMR	Yes	
12	Whether required land for all components of the scheme is under KWA possession.(Details to be furnished separetely)	Yes	
13	Whether spefific Remarks/Recommendations ofCE/SE/tendering Authority given in the proforma	Yes	
14	Whether any changes/deviation made against the original provision If yes, sanction details to be submitted separately		No.
15	Whether pie policy followed, if not , furnish the details	Yes	
16	Whether break up of cost of materials and working charges given in the Tender Notice. If not, specify the reasons separately.		No.
17	Whether technical status showing the status of all the components of the scheme furnished.	Yes	
18	Copy of schematic diagram.	No.	

SUPERINTENDING ENGINEER





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Yes

TPAC CALCULATION	
Design and construction of electrical control rooms at raw water pump house and treatment plant compound, supply, erection and commissioning of transformers and allied works (1) 500KVA at Thonithady raw water pump house,(2)400 KVA at WTP compound,(3) supply erection and commissioning of motor pump sets at RWPH, treatment plant sump pump house, Kalthotty pump house and Nariyanpara intermediate P H etc, (4)Supplying, laying and commissioning 80mm GI pumping main, (5)improvement workofKalthotty sump& pump house, (6)construction of pipe line bridge,(7) design andconstruction of 1.00LL capacity sump& pump house at Nariyanpara, (8)providing washwater disposal pipe line at WTP Alady and interconnection works etc (9) Supply and laying 350mm and 300mm DI gravity main/ pumping main pipe from Alady GLSR to Kalthotty sump (Re-arranging), (10) Supply and laying 300 mm DI pumping main from Kalthotty sump to Nariyanpara (Re-arranging) (11) Supply and Laying 250mm DI pumping main from Nariyanpara to Idukki kavala (balance work re-arranging)	
Package I	
1 Civil Works.(a) Design and Construction of Electrical Control room, RCC Columns with foot bridge to Thonithady Raw water pumping station(1) Control room and foot bridge.	8103196.3
2 Civil Works.(a) Construction of Electrical Control room, RCC Columnswith foot bridge to Thonithady Raw water pumping station-(3)Construction of waste water drain.	404105.7
3 Civil works-(b)Construction of Electrical Control room at water treatment plant site Alady and approach road work(1)Construction of control room	1983656
4 Civil work (b)Construction of Electrical Control room at water treatmentplant site Alady and approach road work.(2).Construction of concreteroad and retaining wall.	7211119.0
5 2(a)- Supply, erection, testing and commissioning of 400 KVA Transformer and allied works at Alady plant compound- (1)- 11 KV substation and HT equipments	970302.82
⁶ 2(a)- Supply, erection, testing and commissioning of 400 KVA Transformer and allied works at Alady plant compound-(2)- LT / MVPANELS & ACCESSORIES	498880
7 Z(a)- Supply, erection, testing and commissioning of 400 KVATransformer and allied works at Alady plant compound- (3)-	25342



8		
	2(a)- Supply, erection, testing and commissioning of 400 KVA Transformer and allied works at Alady plant compound- (4)- CABLES ,WIRES & ACCESSORIES	988208
9	2(a)- Supply, erection, testing and commissioning of 400 KVATransformer and allied works at Alady plant compound- (5)- EARTHING &ACCESSORIES	1081588
10	2(a)- Supply, erection, testing and commissioning of 400 KVATransformer and allied works at Alady plant compound-(6) SUBSTATIONEQUIPMENTS & MISC	52084
11	2(b)- Supply, erection, testing and commissioning of 500 KVATransformer and allied works at Thonithady raw water pump housecompound- (1)- 11 KV substation and HT equipments	1765939
12	2(b)- Supply, erection, testing and commissioning of 500 KVATransformer and allied works at Thonithady raw water pump housecompound-(2)- LT / MV PANELS & ACCESSORIES	1806133
13	2(b)- Supply, erection, testing and commissioning of 500 KVA Transformer and allied works at Thonithady raw water pump housecompound- (3)- DISTRIBUTION BOARDS, SWITCHGEAR & ACCESSORIES	25342
14	2(b)- Supply, erection, testing and commissioning of 500 KVATransformer and allied works at Thonithady raw water pump housecompound- (4)- CABLES , WIRES & ACCESSORIES	845912
15	2(b)- Supply, erection, testing and commissioning of 500 KVA Transformer and allied works at Thonithady plant compound- (5)- EARTHING & ACCESSORIES	1109488
16	2(b)- Supply, erection, testing and commissioning of 500 KVA Transformer and allied works at Thonithady raw water pump housecompound-(6) SUBSTATION EQUIPMENTS & MISC	17084
	2(b)- Supply, erection, testing and commissioning of 500 KVA Transformer and allied works at Thonithady raw water pump housecompound-(7) - SCHEME APPROVAL & POWER ALLOCATION	35000
17	4) Supply, Erection, Testing and Commissioning of 2 Nos new VerticalTurbine motor Pumpset (working voltage 3300V) having discharge of 80lps against a total head of 180 M. suction head 20.30m at Thonithady rawwater pump house	9018615.72
18	9(a) Supply, Erection, Testing and Commissioning of 2 Nos motor pumpsets at Nariyanpara pump house for pumoing to Nariampara top to GL tank	530859.84





¹⁹ 9(b) Supply, Erection, Testing and Commissioning of 2 Nos motor pumpsets at Nariyanpara pump house for pumping to Mulakaramedu/Kochuthovala GL tank	1520946.32
20 9(c) Supply, Erection, Testing and Commissioning of 2 Nos motor pumpsets at Kalthotty pump house pumping to Labbakada GL tank	237261.02
 21 9(d) Supply, Erection, Testing and Commissioning of 2 Nos motor pumpsets at Kalthotty pump house pumping to Meppara GL tank 	1334094.19
 ²³ Supply, Erection, Testing and Commissioning of 2 Nos Centrifugal MotorPumpset having discharge of 5 lps against a total head of 81 M. suctionhead 5m at WTP sump for pumping to Alady Kurisumala GLSR. 	520437.74
24 (2) - Supply, Erection, Testing and Commissioning of 2 Nos new Centrifugal motor Pumpset having discharge of 65 lps against a totalhead of 125 M. suction head 5m speed 1450 rpm at WTP sump forpumping to Kalthotty / Nariyampara sumps	6972415.86
Total	47058010.55
Package II	
Package II excluding GST-	121218018.9
Total Package I & II	168276029
LMR CALCULATION	
Package I	
LMR Estimate PAC	55989263
Deduct Power allocation charges (OYEC & CD) Extension of three phase line to Kalthotti and Nariyanpara pumping 1 station	
Power allocation and energization of clear water pump house at Kalthotty (Including application fee, power 2 allocation fee, Estimate cost for service connection, Cash deposit)	1965000
Any additional cost for actual execution of work - Power allocation and energization of clear water pump 3 house at Kalthotty 100 KVA (Approval from KSEB	200000



4	Power allocation and energization of clear water pump house at Nariyampara (Including application fee, power allocation fee, Estimate cost for service connection, Cash deposit) - As per intimation notice DB-2018- 19/ESKNCHR/326 dated 22.03.2019 from KSEB)	920000
	Any additional cost for actual execution of work - Power allocation	
	and energization of clear water pump	
5	house at Nariyampara 160 KVA (Approval from KSEB)	200000
	Total deduction	3285000
	NET LMR Package-I	52704263
	Package II excluding GST-	119935752
	Total Package I&Package II	172640015

SUPERINTENDING ENGINEER





35000



LMR Estimate PAC



-1.06

KIIF	-B Proje	ect: TRAN 10: WRD	025-06 -	WSS t	o Ayyap	opankovil F	anchay	at - Part II
,Pa	ckage I	- Design and constru	uction of	electri	cal cont	rol rooms a	at raw w	ater pump
h	iouse ar	nd treatment plant co	ompound	d, supp	ly, erect	tion and co	mmissic	oning of
_	transfo	ormers and allied wo	orks (1) 5	00KVA	at Tho	nithady rav	v water p	oump
hou	se,(2)40	00 KVA at WTP com	pound, s	supply	erection	and comm	nissionin	g of motor
pum	p sets a	at RWPH, treatment	plant su	mp pur	np hous	e, Kalthott	y pump	house and
		Nariyar	npara int	ermed	iate P H	etc.		
	LMR A	Abstract with DAR 21-IDK(Id	ukki & Udur	nbanchol	a & Peerun	nedu) 01/07/20	22 - 30/09/2	2022
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
11 C	Civil Works.	(a) Design and Constructior. Raw water pum					ı foot bridge	e to Thonithady
1	2.31	·		()				
		ungle including uprooting of	rank veget	ation, gra	ss, brush v	vood, trees and	l saplings c	of girth up to 30
	• •	ured at a height of 1 m abov	-	-				•
	the periph	nery of the area cleared	6.1					
		1	900.000	sqm	15.43	13887.00	15.60	14040.00
2	15.7.4							
	Demolish	ning brick work manually /	by mechan	ical mea	ns includin	g stacking of	serviceable	e material and
		of unserviceable material w	ithin 50 me	etres lead	as per dir	ection of Engir	neer-in-Cha	arge.In cement
	mortar	12	-					
	T		1.201	cum	1805.99	2168.99	1829.35	2197.05
3	2.8.1	Ke	rala Wa	ater A	uthorit	V		
		rk in excavation by mechani						
		(not exceeding 1.5 m in w lift up to 1.5 m, including g		1 1		-		-
		within a lead of 50 m.All kil						
			513.822	cum	309.95	159259.13	319.55	164191.82
4	7.1.1							
-		rubble masonry with hard st	one in foun	dation an	d plinth inc	luding levelling	y up with ce	ement concrete
		cement : 6 coarse sand :			•			
	with:Cem	nent mortar 1:6 (1 cement	: 6 coarse	sand)				
			6.968	cum	7520.41	52402.22	8030.80	55958.61
5	4.1.5							
	Providing	and laying in position cer	ment concre	ete of sp	ecified gra	de excluding t	he cost of	centering and
	-	g - All work up to plinth leve	el:1:3:6 (1 c	cement :	3 coarse s	and : 6 graded	I stone agg	regate 20 mm
	nominal s	size)						
	1		9.861	cum	7690.32	75834.25	9884.65	97472.53
6	50.6.1.3							
		ck masonry using pre cast so						
	1	g to IS 2185 Part I of 1979 fo	•			o level up to flo	or V level t	hickness 20cm
	and above	e in: CM 1:6 (1 cement :6 co	oarse sand)	etc comp	piete			

				1 1			
	1	25.157	cum	7784.73	195840.45	8495.10	213711.23
7	10.6.1 Supplying and fixing rolling shutters of through their entire length and jointed shaft with brackets, side guides and a complete, including the cost of provid high tensile steel wire of adequate s	d together a arrangemen ding and fixi trength con	t the end ts for ins ing neces forming	l by end loc de and outs ssary 27.5 d to IS: 4454	cks, mounted c side locking wi cm long wire s - part 1 and N	on specially th push and prings man /I.S. top cov	designed pij I pull operation ufactured fro
	thickness for rolling shutters.80x1.25	5 mm M.S.	laths with	1.25 mm	thick top cove	r	
		17.700	sqm	3617.29	64026.03	4136.05	73208.09
8	10.5.1 Providing and fixing 1 mm thick M.S. plates at the junctions and corners, approved steel primer.Using M.S. a	all necess	ary fittin	gs complet	e, including a		-
		1.800	sqm	5440.63	9793.13	6399.50	11519.10
	fixed in position with hold fast lugs c fastener shall be paid for separately					` 	~
	-400	0.256	cum	80265.15	20547.88	118215.0 0	30263.04
10	50.9.2.3 Providing and fixing paneled or pane mm thick shutters including ISI marke screws, excluding paneling which wi charge.using Vengai wood	led and gla d M.S press	zed shutt	ers for doo inges brigh	rs, windows a t finished of re	0 nd clerestor quired size	with necessa
10	Providing and fixing paneled or pane mm thick shutters including ISI marke screws, excluding paneling which wi	led and gla d M.S press	zed shutt	ers for doo inges brigh	rs, windows a t finished of re	0 nd clerestor quired size	y windows, with necessa
10	Providing and fixing paneled or pane mm thick shutters including ISI marke screws, excluding paneling which wi	led and gla d M.S press Il be paid fo 7.821 ine batched using ceme g the cost o ions as per n and durab 30 kg/ cum.	zed shutt sed butt h or separa sqm and mac nt conter f centerir IS: 9103 ility as p	ters for doo inges brigh ately, all co 2666.62 thine mixed at as per ap ng, shutterin 3 to acceler er direction	rs, windows an t finished of re mplete as per 20855.64 design mix M- proved design ng, finishing an rate, retard se of Engineer -	0 nd clerestor quired size v direction o 3555.55 25 grade ce mix, includi d reinforcer tting of con- in-charge. I	ry windows, a with necessa f Engineer in 27807.96 ement concre ing pumping ment, includi crete, impro Note:- Ceme



12	5.33.2									
	Providing and laying in position machine	e batched	and mad	hine mixed	design mix M-	25 grade ce	ement concre			
	for reinforced cement concrete work, using cement content as per approved design mix, including pumping o									
	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:- Cemen									
	content considered in this item is @ 330) kg/ cum	. Excess	or less cem	ent used as pe	er design mi	x is payable			
	recoverable separately.All work above	plinth leve	l upto flo	or V level						
		127.677	cum	11550.4	1474720.42	13768.90	1757971.8			
13	5.34.1									
	Extra for providing richer mixes at all	floor lev	els. Note	:- Excess/	less cement o	ver the spe	cified ceme			
	content used is payable/ recoverable separately.Providing M-30 grade concrete instead of M-25 grad BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum).									
		207.519	1223	85.7	17784.38	101.65	21094.31			
		207.010	oum	00.1	17704.00	101.00	21004.01			
14	5.2.2									
	Reinforced cement concrete work in wa	alls (any th	hickness)	, including	attached pilast	ers, buttres	ses, plinth ar			
	string courses, fillets, columns, pillars,		and the second second				•			
	-		10 C A 10/							
	cost of centering, shuttering, finishing a	nd reinfor	cement :	1:1.5:3(1 ce	ement : 1.5 coa	arse sand : 3	3 graded stor			
	a grave grate 00 mm naminal size)									
	aggregate 20 mm nominal size)	-	1.1.1		10.000 (0.000 (0.000)					
	aggregate 20 mm nominal size)				L.					
	aggregate 20 mm nominal size)	11.135	cum	11433.93	127316.81	13791.85	153572.25			
15						13791.85	153572.25			
15	5.22.6 Ker	ala Wa	ater A	uthorit	V					
15	5.22.6 Steel reinforcement for R.C.C work incl	ala Wa uding stra	ater A	uthorit , cutting, be	ending, placing	in position				
15	5.22.6 Ker	uding stra	ightening Treated I	uthorit , cutting, be	ending, placing	in position				
15	5.22.6 Steel reinforcement for R.C.C work incl	uding stra hanically 24051.9	ightening Treated I	, cutting, be pars of grac	ending, placing le Fe-500D or i	in position more				
15	5.22.6 Steel reinforcement for R.C.C work incl	uding stra	ightening Treated I	, cutting, be pars of grac	ending, placing	in position				
15	5.22.6 Steel reinforcement for R.C.C work incl	uding stra hanically 24051.9	ightening Treated I	, cutting, be pars of grac	ending, placing le Fe-500D or i	in position more	and binding a			
	5.22.6 Steel reinforcement for R.C.C work incl complete upto plinth levelThermo - Mec	uding stra hanically 24051.9 41	ightening Treated I kilogram	, cutting, be pars of grac 102.61	ending, placing le Fe-500D or i 2467969.67	in position more 120.80	and binding a 2905474.47			
	5.22.6 Steel reinforcement for R.C.C work incl complete upto plinth levelThermo - Mec 5.9.1	uding stra hanically 24051.9 41	ightening Treated I kilogram	, cutting, be pars of grac 102.61	ending, placing le Fe-500D or i 2467969.67	in position more 120.80	and binding a 2905474.47			
	5.22.6 Steel reinforcement for R.C.C work incl complete upto plinth levelThermo - Mec 5.9.1 Centering and shuttering including str	uding stra hanically 24051.9 41	ightening Treated I kilogram c. and re	, cutting, be pars of grac 102.61	ending, placing le Fe-500D or i 2467969.67	in position more 120.80	and binding a 2905474.4			
16	5.22.6 Steel reinforcement for R.C.C work incl complete upto plinth levelThermo - Mec 5.9.1 Centering and shuttering including str columns, etc for mass concrete	uding stra hanically 24051.9 41	ightening Treated I kilogram c. and re	uthorit , cutting, be pars of grac 102.61 moval of fo	ending, placing le Fe-500D or i 2467969.67 orm for:Founda	in position more 120.80 ations, foot	and binding a 2905474.47 ings, bases			
	5.22.6 Steel reinforcement for R.C.C work incl complete upto plinth levelThermo - Mec 5.9.1 Centering and shuttering including str columns, etc for mass concrete	uding stra hanically 24051.9 41 rutting, et	ightening Treated I kilogram c. and re	n, cutting, be pars of grac 102.61 moval of fo 350.0	ending, placing le Fe-500D or i 2467969.67 orm for:Founda 69160.00	in position more 120.80 ations, foot 347.55	and binding a 2905474.47 ings, bases 68675.88			
16	5.22.6 Steel reinforcement for R.C.C work incl complete upto plinth levelThermo - Mec 5.9.1 Centering and shuttering including str columns, etc for mass concrete 5.9.3 Centering and shuttering including stru	uding stra hanically 24051.9 41 rutting, et	ightening Treated I kilogram c. and re	n, cutting, be pars of grac 102.61 moval of fo 350.0	ending, placing le Fe-500D or i 2467969.67 orm for:Founda 69160.00	in position more 120.80 ations, foot 347.55	and binding a 2905474.47 ings, bases 68675.88			
16	5.22.6 Steel reinforcement for R.C.C work incl complete upto plinth levelThermo - Mec 5.9.1 Centering and shuttering including str columns, etc for mass concrete	uding stra hanically 24051.9 41 rutting, et	ightening Treated I kilogram c. and re	n, cutting, be pars of grac 102.61 moval of fo 350.0	ending, placing le Fe-500D or i 2467969.67 orm for:Founda 69160.00	in position more 120.80 ations, foot 347.55	and binding a 2905474.4 ings, bases 68675.88			
16	5.22.6 Steel reinforcement for R.C.C work incl complete upto plinth levelThermo - Mec 5.9.1 Centering and shuttering including str columns, etc for mass concrete 5.9.3 Centering and shuttering including stru	uding stra hanically 24051.9 41 rutting, et	ightening Treated I kilogram c. and re	n, cutting, be pars of grac 102.61 moval of fo 350.0	ending, placing le Fe-500D or i 2467969.67 orm for:Founda 69160.00	in position more 120.80 ations, foot 347.55	and binding a 2905474.4 ings, bases 68675.88 oofs, landing			
16	5.22.6 Steel reinforcement for R.C.C work incl complete upto plinth levelThermo - Med 5.9.1 Centering and shuttering including str columns, etc for mass concrete 5.9.3 Centering and shuttering including stru balconies and access platform	uding stra hanically 24051.9 41 rutting, et 197.600	ightening Treated I kilogram c. and re sqm . and ren	uthorit , cutting, be pars of grac 102.61 moval of for	ending, placing le Fe-500D or i 2467969.67 orm for:Founda 69160.00 m for:Suspend	in position more 120.80 ations, foot 347.55 led floors, r	and binding a 2905474.47 ings, bases 68675.88			
16	 5.22.6 Steel reinforcement for R.C.C work incl complete upto plinth levelThermo - Med 5.9.1 Centering and shuttering including stru- columns, etc for mass concrete 5.9.3 Centering and shuttering including stru- balconies and access platform 5.9.5 	uding stra hanically 24051.9 41 rutting, et 197.600 utting, etc 348.889	ightening Treated I kilogram c. and re sqm . and ren	withing, be pars of grac 102.61 moval of for 350.0 noval of for 851.52	ending, placing le Fe-500D or i 2467969.67 orm for:Founda 69160.00 m for:Suspend 297085.96	in position more 120.80 ations, foot 347.55 led floors, r 907.25	and binding a 2905474.47 ings, bases 68675.88 oofs, landing 316529.55			
16	5.22.6 Steel reinforcement for R.C.C work incl complete upto plinth levelThermo - Med 5.9.1 Centering and shuttering including str columns, etc for mass concrete 5.9.3 Centering and shuttering including stru balconies and access platform 5.9.5 Centering and shuttering including stru	uding stra hanically 24051.9 41 rutting, et 197.600 utting, etc 348.889	ightening Treated I kilogram c. and re sqm . and ren	withing, be pars of grac 102.61 moval of for 350.0 noval of for 851.52	ending, placing le Fe-500D or i 2467969.67 orm for:Founda 69160.00 m for:Suspend 297085.96	in position more 120.80 ations, foot 347.55 led floors, r 907.25	and binding a 2905474.47 ings, bases 68675.88 oofs, landing 316529.55			
16	 5.22.6 Steel reinforcement for R.C.C work incl complete upto plinth levelThermo - Med 5.9.1 Centering and shuttering including stru- columns, etc for mass concrete 5.9.3 Centering and shuttering including stru- balconies and access platform 5.9.5 	uding stra hanically 24051.9 41 rutting, et 197.600 utting, etc 348.889	ightening Treated I kilogram c. and re sqm . and rem sqm	withing, be pars of grac 102.61 moval of for 350.0 noval of for 851.52	ending, placing le Fe-500D or i 2467969.67 orm for:Founda 69160.00 m for:Suspend 297085.96	in position more 120.80 ations, foot 347.55 led floors, r 907.25	and binding a 2905474.4 ings, bases 68675.88 oofs, landing 316529.55			



19	5.9.6 Centering and shuttering including stru Posts and Struts	tting, etc.	and rem	oval of forr	n for:Columns,	Pillars, Pie	ers, Abutments,			
		430.401	sqm	901.48	387997.89	910.10	391707.95			
20	13.7.1 12 mm cement plaster finished with a flo	pating coa	at of neat	cement of I	mix:1:3 (1 cem	ent : 3 fine	sand)			
		1503.77 1	sqm	418.79	629764.26	486.80	732035.72			
21	13.8.2 15 mm cement plaster on rough side of mix:1: 4 (1 cement : 4 fine sand)	f single or	half brick	wall finish	ed with a floati	ng coat of	neat cement of			
		337.251	sqm	453.75	153027.64	530.10	178776.76			
22	13.44.1 Finishing walls with water proofing cen 3.84 kg/10 sqm)	nent paint	of require	ed shade:N	New work (Two	or more co	pats applied @			
		1629.55 1	sqm	112.09	182656.37	121.20	197501.58			
23	13.60.1 Wall painting with acrylic emulsion pair more coats on new work	nt of appr	oved brai	nd and ma	nufacture to giv	ve an ever	i shade:Two or			
	Kera	323.138	atsqmA	158.02	V 51062.27	160.55	51879.81			
24	13.37.1 White washing with lime to give an ever	n shade:N	ew work (three or m	ore coats)					
		151.229	sqm	35.1	5308.14	34.10	5156.91			
25	13.50.3 Applying priming coat:With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron /steel works									
		46.200	sqm	62.27	2876.87	61.40	2836.68			
26	13.48.3 Finishing with Deluxe Multi surface pair specifications:Painting Steel work with applied @ 0.90 ltr/10 sqm over an une manufacture	Deluxe M	Iulti Surfa	ce Paint to	give an even	shade. Tw	o or more coat			
		55.276	sqm	154.62	8546.78	157.30	8694.91			
27	13.71 Lettering with black Japan pint of appro	ved brand	l and man	ufacture						
		2500.00 0		5.8	14500.00	5.85	14625.00			



 Providing and fixing 10 mm thick acid and /or alkali resistant tiles of approved make and co / or alkali resisting mortar bedding, and joints filled with acid and /or alkali resisting cemer complete as per the direction of Engineer-in-Charge.In flooring on a bed of 10 mm thick proof cement : 4 coarse sand)Acid and alkali resistant tile 3.312 sqm 1836.85 6083.65 2098. 29 11.21.2.1 Providing and fixing 10 mm thick acid and /or alkali resistant tiles of approved make and co 	nt as per IS : 4457 mortar 1:4 (1 acio
3.312 sqm 1836.85 6083.65 2098. 29 11.21.2.1 5 <	
29 11.21.2.1	
	50 6950.23
/ or alkali resisting mortar bedding, and joints filled with acid and /or alkali resisting cemer complete as per the direction of Engineer-in-Charge.In dado/ skirting on 12 mm thick morta cement : 4 coarse sand)Acid and alkali resistant tile	nt as per IS : 4457
12.960 sqm 1975.33 25600.28 2235.	80 28975.97
 30 11.37 Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours suggery, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coars pointing the joints with white cement and matching pigment etc., complete. 	ch as White, Ivory
3.151 sqm 1138.82 3588.42 1317.	40 4151.13
 31 11.22.1.1 Tile work in skirting, risers of steps and dado upto 2 m height, over 12 mm thick bed of ce cement : 3 coarse sand) and jointed with grey cement slurry @ 3.3 kg/sqm, including pointi mixed with pigment of matching shade complete.Marble tiles (polished) Raj Nagar8 mm the second state of the second state o	ng in white cemen
15.121 sqm 1523.0 23029.28 1532.0 32 od2083/2019_2020 od2083/2019_2020 od2083/2019_2020 od2083/2019_2020	
Providing sanitary facilities and electrical works including water closet ,flushing cistern ,was 250ltr capacity PVC water tank and other required sanitary and electrical fittings as p departmental officers in charge.	•
250ltr capacity PVC water tank and other required sanitary and electrical fittings as p	er the direction o
250ltr capacity PVC water tank and other required sanitary and electrical fittings as p departmental officers in charge.	er the direction o
250ltr capacity PVC water tank and other required sanitary and electrical fittings as p departmental officers in charge. 1.000 No 42488.69 42488.69 46280 33 od148982/2018_2019 Providing gantry girder arrangements to existing pump house with allied works etc.complete	er the direction o .10 46280.10
250ltr capacity PVC water tank and other required sanitary and electrical fittings as p departmental officers in charge. 1.000 No 42488.69 42488.69 46280 33 od148982/2018_2019 Providing gantry girder arrangements to existing pump house with allied works etc.complete	er the direction o .10 46280.10 .00 80000.00



	hoisting, f	k in built up tubula ixing position and ial shaped washer	applying a primi	ng coat o	approved st	eel primer, inc		-			
			911.0	28 kg	193.47	176256.59	209.55	190905.9			
SI No	Spec	Descriptior	n Quant		DSOR Rate	TS Amount	LMR Rate	LMR Amour			
3 ((a) Construction o. pur	f Electrical Contro			-	e to Thonitha	ady Raw wa			
1	cm measu	ungle including up ared at a height of ery of the area cle	1 m above groun	-				•			
			100.0	00 sqn	15.43	1543.00	15.60	1560.00			
	bottoms, I	(not exceeding 1. ift up to 1.5 m, ind within a lead of 50	cluding getting ou	it the exc							
			38.2	50 cum	309.95	11855.59	319.55	12222.7			
	7.1.1 Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concret 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)										
	with Och	ent mortar 1:6 (1	cement : 6 coal		aggregate		al size) up	to plinth le			
	with Och	ent mortar 1:6 (1		se sand)							
4		ent mortar 1:6 (1	cement : 6 coar 19.12	se sand)		143827.84	al size) up 8030.80				
4	5.1.3 Providing shuttering	ent mortar 1:6 (1 and laying in positi , finishing and rein regate 20 mm nom	19.12 ion specified grad forcement - All w	e of reinfo	7520.41	143827.84 concrete, exclu	8030.80	153589.0			
4	5.1.3 Providing shuttering	and laying in positi , finishing and rein	19.12 ion specified grad forcement - All w	e of reinfo	orced cement plinth level:1:2	143827.84 concrete, exclu	8030.80	153589.0			
4	5.1.3 Providing shuttering stone agg 5.9.2 Centering	and laying in positi , finishing and rein	ion specified grad forcement - All w hinal size) 11.7 cluding strutting	e of reinfo ork up to 01 curr	removal of	143827.84 concrete, exclu 2:4 (1 cement 104896.19	8030.80 uding the co : 2 coarse s 11245.05	153589.0 Ist of center and : 4 grad 131578.3			
	5.1.3 Providing shuttering stone agg 5.9.2 Centering	and laying in positi , finishing and rein regate 20 mm nom	ion specified grad forcement - All w hinal size) 11.70 cluding strutting sees, plinth and s	e of reinfo ork up to p 01 cur	removal of trses etc.	143827.84 concrete, exclu 2:4 (1 cement 104896.19 form for:Walls	8030.80 uding the co : 2 coarse s 11245.05 (any thickn	153589.0 Ist of center and : 4 grad 131578.3 Hess) includ			
	5.1.3 Providing shuttering stone agg 5.9.2 Centering attached 5.22.6 Steel reinf	and laying in positi , finishing and rein regate 20 mm nom	ion specified grad forcement - All w hinal size) 11.70 cluding strutting ses, plinth and s 99.00 C work including s	e of reinfo ork up to p 01 cun etc. and otring cou 02 sqn	removal of trses etc. 748.62	143827.84 concrete, exclu 2:4 (1 cement 104896.19 form for:Walls 74114.88 ending, placing	8030.80 uding the co : 2 coarse s 11245.05 (any thickn 766.40 g in position	153589.0 est of center and : 4 grad 131578.3 ess) incluc 75875.1			
5	5.1.3 Providing shuttering stone agg 5.9.2 Centering attached 5.22.6 Steel reinf	and laying in positi , finishing and rein regate 20 mm nom and shuttering in pilasters, butteres	ion specified grad forcement - All w hinal size) 11.70 cluding strutting ses, plinth and s 99.00 C work including s	e of reinfo ork up to p 01 curr etc. and tring cou 02 sqrr straighten	removal of transferred cement of 8964.72 removal of transferred rese etc. 748.62	143827.84 concrete, exclu 2:4 (1 cement 104896.19 form for:Walls 74114.88 ending, placing	8030.80 uding the co : 2 coarse s 11245.05 (any thickn 766.40 g in position	153589.0 est of center and : 4 grad 131578.3 ess) includ 75875.1			

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			166.500	sqm	403.29	67147.79	468.30	77971.95
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
14	Civil worl	<pre><s-(b)construction electr="" of="" pre="" wor<=""></s-(b)construction></pre>	rical Control re			•	lady and ap	pproach road
1	cm meas	jungle including uprooting o ured at a height of 1 m abo nery of the area cleared	-	-				•
			150.000	sqm	15.43	2314.50	15.60	2340.00
2	or drains bottoms,	rk in excavation by mechan (not exceeding 1.5 m in lift up to 1.5 m, including within a lead of 50 m.All k	width or 10 s getting out th	sqm on p	olan), inclu	ding dressing	of sides a	nd ramming
			200.965	cum	309.95	62289.10	319.55	64218.37
3		rk in excavation by mechar						•
3	Earth wor 30 cm in m and lift	depth, 1.5 m in width as we up to 1.5 m, disposed eart	ell as 10 sqm th to be levell 5.400	on plan) ed and no cum	including d eatly dresse 749.05	isposal of exca ed.Hard rock (r 4044.87	vated earth equiring bla 1047.20	n, lead up to asting) 5654.88
	Earth wor 30 cm in m and lift 7.1.1 Random 1:6:12 (1	depth, 1.5 m in width as we	ell as 10 sqm th to be level 5.400 stone in found I : 12 graded	on plan) ed and no cum dation an I stone a	including d eatly dresse 749.05	isposal of exca ed.Hard rock (r 4044.87 Juding levelling	vated earth equiring bla 1047.20 up with ce	n, lead up to asting) 5654.88 ement concre
	Earth wor 30 cm in m and lift 7.1.1 Random 1:6:12 (1	depth, 1.5 m in width as we up to 1.5 m, disposed eart rubble masonry with hard s cement : 6 coarse sand	ell as 10 sqm th to be level 5.400 stone in found I : 12 graded	on plan) ed and no cum dation an I stone a	including d eatly dresse 749.05	isposal of exca ed.Hard rock (r 4044.87 Juding levelling	vated earth equiring bla 1047.20 up with ce	n, lead up to asting) 5654.88 ement concre
	Earth wor 30 cm in m and lift 7.1.1 Random 1:6:12 (1 with:Cem 4.1.5 Providing	depth, 1.5 m in width as we up to 1.5 m, disposed eart rubble masonry with hard cement : 6 coarse sand nent mortar 1:6 (1 cemen g and laying in position ce g - All work up to plinth le	ell as 10 sqm th to be levelle 5.400 stone in found 1 : 12 graded at : 6 coarse 18.407	on plan) ed and no cum dation an I stone a sand) cum	including d eatly dresse 749.05 Ind plinth inc aggregate 2 7520.41	isposal of exca ed.Hard rock (r 4044.87 Juding levelling 20 mm nomina 138428.19 de excluding t	vated earth equiring bla 1047.20 g up with ce al size) up 8030.80 he cost of	n, lead up to asting) 5654.88 ement concre to plinth lev 147822.9 centering a
4	Earth wor 30 cm in m and lift 7.1.1 Random 1:6:12 (1 with:Cem 4.1.5 Providing shuttering	depth, 1.5 m in width as we up to 1.5 m, disposed eart rubble masonry with hard cement : 6 coarse sand nent mortar 1:6 (1 cemen g and laying in position ce g - All work up to plinth le	ell as 10 sqm th to be levelle 5.400 stone in found 1 : 12 graded at : 6 coarse 18.407	on plan) ed and no cum dation an I stone a sand) cum	including d eatly dresse 749.05 Ind plinth inc aggregate 2 7520.41	isposal of exca ed.Hard rock (r 4044.87 Juding levelling 20 mm nomina 138428.19 de excluding t	vated earth equiring bla 1047.20 g up with ce al size) up 8030.80 he cost of	n, lead up to asting) 5654.88 ement concre to plinth lev 147822.94 centering a
4	Earth wor 30 cm in m and lift 7.1.1 Random 1:6:12 (1 with:Cem 4.1.5 Providing shuttering nominal s 50.6.1.3 Solid bloc confirmin	depth, 1.5 m in width as we up to 1.5 m, disposed eart rubble masonry with hard cement : 6 coarse sand nent mortar 1:6 (1 cemen g and laying in position ce g - All work up to plinth le	ell as 10 sqm th to be level 5.400 stone in found 1 : 12 graded at : 6 coarse 18.407 ement concre vel:1:3:6 (1 c 14.724 solid blocks (for super stru	on plan) ed and no cum dation an I stone a sand) cum ete of sp cement : cum	including d eatly dresse 749.05 ind plinth inc aggregate 2 7520.41 ecified grad 3 coarse sa 7690.32 made) of siz	isposal of exca ed.Hard rock (r 4044.87 duding levelling 20 mm nomina 138428.19 de excluding t and : 6 gradec 113232.27	vated earth equiring bla 1047.20 g up with ce al size) up 8030.80 he cost of stone agg 9884.65	n, lead up to asting) 5654.88 ement concre to plinth lev 147822.94 centering a gregate 20 m 145541.59 t available si

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	10.6.1													
	Supplying and fixing rolling shutters of	approved	make, ma	ade of requ	ired size M.S.	laths, interle	ocked togetl							
	through their entire length and jointed together at the end by end locks, mounted on specially designed pi													
	shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation													
	complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured fro high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of require													
	-	-	-		•	•	ver of requi							
	thickness for rolling shutters.80x1.25	mm M.S.	laths with	1.25 mm	thick top cover	r								
		9.000	sqm	3617.29	32555.61	4136.05	37224.4							
8	21.1.1.1													
	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built u													
	standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS : 7													
	and IS: 1285, fixing with dash fastene	rs of requ	ired dia a	and size, ir	ncluding neces	sary filling	up the gaps							
	and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sectio													
	shall be smooth, rust free, straight, mit	tred and jo	pinted me	chanically	wherever requ	ired includi	ng cleat an							
	Aluminnium snap beading for glazing	g /panelin	g, C.P. b	rass/ stair	nless steel scr	ews, all co	mplete as							
	architectural drawings and the directio	ns of Eng	ineer-in-c	harge.(Gla	zing, paneling	and dash f	asteners to							
	architectural drawings and the directions of Engineer-in-charge.(Glazing, paneling and dash fasteners to paid for separately):For fixed portionAnodised aluminium (anodised transparent or dyed to required sha													
	according to IS : 1868, Minimum anot	dic coating	g of grade	e AC 15)	5.1									
	1 Ac	13.389	kg	520.9	6974.33	588.35	7877.42							
	501	10.000	Ng	020.0	0014.00	000.00	1011.42							
9	21.3.1													
					Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPI									
	rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer - i													
					-		Engineer -							
	Charge. (Cost of aluminium snap be				-		Engineer -							
	Charge. (Cost of aluminium snap be thickness	ading sha	all be pai	d in basic	item):With floa	t glass par	Engineer - nes of 4.0 r							
	TTAL				-		Engineer - nes of 4.0 r							
10	TTAL	ading sha	all be pai	d in basic	item):With floa	t glass par	Engineer - nes of 4.0 r							
10	thickness	ading sha	all be pair	d in basic	item):With floa	t glass par 1585.20	Engineer - nes of 4.0 r 11889.0							
10	thickness P	7.500	all be paid sqm f reinforce	1228.2	item):With floa 9211.50 concrete, exclu	t glass par 1585.20 ding the co	Engineer - nes of 4.0 r 11889.0 st of center							
10	thickness 5.1.2 Providing and laying in position specifie	7.500 7.500 ed grade o nt - All wo	all be paid sqm f reinforce	1228.2	item):With floa 9211.50 concrete, exclu	t glass par 1585.20 ding the co	Engineer - nes of 4.0 r 11889.0 st of center							
10	thickness 5.1.2 Providing and laying in position specifie shuttering, finishing and reinforcement	7.500 7.500 ed grade o nt - All wo	all be paid sqm f reinforce	1228.2	item):With floa 9211.50 concrete, exclu	t glass par 1585.20 ding the co	Engineer - nes of 4.0 r 11889.0 st of center coarse sand							
	thickness 5.1.2 Providing and laying in position specifie shuttering, finishing and reinforcement	7.500 7.500 ed grade o nt - All wo inal size	sqm	d in basic 1228.2 ed cement plinth leve	etem):With floa 9211.50 concrete, exclu	t glass par 1585.20 ding the co ment 1.5 c	Engineer - nes of 4.0 n 11889.0 st of center coarse sand							
	thickness 5.1.2 Providing and laying in position specifie shuttering, finishing and reinforcement graded stone aggregate 20 mm nomination 5.2.2	7.500 ed grade o nt - All wo inal size 10.836	sqm f reinforce ork up to cum	d in basic 1228.2 ed cement plinth leve 9483.15	item):With floa 9211.50 concrete, exclu el:1:1:5:3 (1 ce 102759.41	t glass par 1585.20 Iding the co ment 1.5 c 11828.25	Engineer - nes of 4.0 r 11889.0 st of center oarse sand 128170.9							
	thickness 5.1.2 Providing and laying in position specifies shuttering, finishing and reinforcement graded stone aggregate 20 mm nomit	ading sha 7.500 ed grade o nt - All wo inal size 10.836 alls (any th	all be paid sqm f reinforce ork up to cum nickness)	d in basic 1228.2 ed cement plinth leve 9483.15 , including	item):With floa 9211.50 concrete, exclu el:1:1:5:3 (1 ce 102759.41 attached pilast	t glass par 1585.20 ding the co ment 1.5 c 11828.25 ers, buttres	Engineer - nes of 4.0 r 11889.0 st of center coarse sand 128170.9 ses, plinth a							
	thickness 5.1.2 Providing and laying in position specifies shuttering, finishing and reinforcement graded stone aggregate 20 mm nomination 5.2.2 Reinforced cement concrete work in was string courses, fillets, columns, pillars,	ading sha 7.500 ed grade o nt - All wo inal size 10.836 alls (any th piers, abu	sqm f reinforce ork up to cum nickness)	d in basic 1228.2 ed cement plinth leve 9483.15 , including posts and s	item):With floa 9211.50 concrete, exclu el:1:1:5:3 (1 ce 102759.41 attached pilastu	t glass par 1585.20 ding the co ment 1.5 c 11828.25 ers, buttres t floor five l	Engineer - nes of 4.0 r 11889.00 st of center oarse sand 128170.9 ses, plinth a level exclud							
	thickness 5.1.2 Providing and laying in position specifies shuttering, finishing and reinforcement graded stone aggregate 20 mm nomit 5.2.2 Reinforced cement concrete work in was string courses, fillets, columns, pillars, cost of centering, shuttering, finishing a	ading sha 7.500 ed grade o nt - All wo inal size 10.836 alls (any th piers, abu	sqm f reinforce ork up to cum nickness)	d in basic 1228.2 ed cement plinth leve 9483.15 , including posts and s	item):With floa 9211.50 concrete, exclu el:1:1:5:3 (1 ce 102759.41 attached pilastu	t glass par 1585.20 ding the co ment 1.5 c 11828.25 ers, buttres t floor five l	Engineer - nes of 4.0 r 11889.00 st of center oarse sand 128170.9 ses, plinth a level exclud							
	thickness 5.1.2 Providing and laying in position specifies shuttering, finishing and reinforcement graded stone aggregate 20 mm nomination 5.2.2 Reinforced cement concrete work in was string courses, fillets, columns, pillars,	ading sha 7.500 ed grade o nt - All wo inal size 10.836 alls (any th piers, abu	sqm f reinforce ork up to cum nickness)	d in basic 1228.2 ed cement plinth leve 9483.15 , including posts and s	item):With floa 9211.50 concrete, exclu el:1:1:5:3 (1 ce 102759.41 attached pilastu	t glass par 1585.20 ding the co ment 1.5 c 11828.25 ers, buttres t floor five l	Engineer - nes of 4.0 r 11889.00 st of center oarse sand 128170.9 ses, plinth a level exclud							
10	thickness 5.1.2 Providing and laying in position specifies shuttering, finishing and reinforcement graded stone aggregate 20 mm nomit 5.2.2 Reinforced cement concrete work in was string courses, fillets, columns, pillars, cost of centering, shuttering, finishing a	ading sha 7.500 ed grade o nt - All wo inal size 10.836 alls (any th piers, abu	sqm f reinforce ork up to cum nickness)	d in basic 1228.2 ed cement plinth leve 9483.15 , including posts and s :1.5:3(1 c	item):With floa 9211.50 concrete, exclu el:1:1:5:3 (1 ce 102759.41 attached pilaste struts etc. up to ement : 1.5 coa	t glass par 1585.20 ding the co ment 1.5 c 11828.25 ers, buttres t floor five l	Engineer - nes of 4.0 r 11889.00 st of center oarse sand 128170.9 ses, plinth a level exclud							
11	thickness 5.1.2 Providing and laying in position specifies shuttering, finishing and reinforcement graded stone aggregate 20 mm nominal 5.2.2 Reinforced cement concrete work in was string courses, fillets, columns, pillars, cost of centering, shuttering, finishing a aggregate 20 mm nominal size)	ading sha 7.500 ed grade o nt - All wo inal size 10.836 alls (any th piers, abu ind reinfor	f reinforce ork up to cum hickness) utments, p cement :1	d in basic 1228.2 ed cement plinth leve 9483.15 , including posts and s	item):With floa 9211.50 concrete, exclu el:1:1:5:3 (1 ce 102759.41 attached pilaste struts etc. up to ement : 1.5 coa	t glass par 1585.20 ding the co ment 1.5 c 11828.25 ers, buttres t floor five l irse sand : 3	Engineer - nes of 4.0 r 11889.00 st of centeri oarse sanc 128170.9 ses, plinth a level exclud 3 graded sto							
	thickness 5.1.2 Providing and laying in position specifies shuttering, finishing and reinforcement graded stone aggregate 20 mm nomit 5.2.2 Reinforced cement concrete work in was string courses, fillets, columns, pillars, cost of centering, shuttering, finishing a	ading sha 7.500 ed grade o nt - All wo inal size 10.836 alls (any th piers, abu ind reinfor 26.087	f reinforce ork up to cum hickness) utments, p cement :1	d in basic 1228.2 ed cement plinth leve 9483.15 , including posts and s :1.5:3(1 co 11433.93	ement : 1.5 coa	t glass par 1585.20 ding the co ment 1.5 c 11828.25 ers, buttres t floor five l irse sand : 3 13791.85	Engineer - nes of 4.0 r 11889.00 st of centeri coarse sand 128170.9 ses, plinth a level exclud 3 graded sto 359787.9							



		4061.53 0	kg	102.61	416753.59	120.80	490632.82
13	5.9.1 Centering and shuttering including str columns, etc for mass concrete	utting, et	c. and re	moval of fo	orm for:Founda	ations, foot	ings, bases of
		36.000	sqm	350.0	12600.00	347.55	12511.80
14	5.9.3 Centering and shuttering including strubalconies and access platform	utting, etc.	. and rem	oval of for	m for:Suspend	ed floors, r	oofs, landings,
		98.987	sqm	851.52	84289.41	907.25	89805.96
15	5.9.5 Centering and shuttering including strut bressumers and cantilevers	tting, etc. :	and remo	val of form	for:Lintels, bea	ams, plinth	beams, girders
		73.182	sqm	678.28	49637.89	731.35	53521.66
16	5.9.6 Centering and shuttering including stru Posts and Struts	tting, etc.	and remo	oval of form	n for:Columns,	Pillars, Pie	ers, Abutments,
	101.	59.040	sqm	901.48	53223.38	910.10	53732.30
17	13.7.1 12 mm cement plaster finished with a flo	oating coa	it of neat	cement of r	nix:1:3 (1 cem	ent : 3 fine	sand)
	Kera	207.662	atsqmA	u418.79t	y 86966.77	486.80	101089.86
18	13.8.2 15 mm cement plaster on rough side o mix:1: 4 (1 cement : 4 fine sand)	f single or	half brick	wall finish	ed with a floati	ng coat of	neat cement of
		319.321	sqm	453.75	144891.90	530.10	169272.06
19	13.37.1 White washing with lime to give an ever	n shade:N	ew work (three or mo	ore coats)		
		81.120	sqm	35.1	2847.31	34.10	2766.19
20	13.44.1 Finishing walls with water proofing cen 3.84 kg/10 sqm)	1		ed shade:N	lew work (Two	or more co	oats applied @
		430.863	sqm	112.09	48295.43	121.20	52220.60
21	13.50.3 Applying priming coat:With ready mixe on steel galvanised iron /steel works	d red oxid	le zinc ch	romate prir	ner of approve	d brand an	d manufacture
		18.000	sqm	62.27	1120.86	61.40	1105.20



22	specifica	with Deluxe Multi surface pa tions:Painting Steel work wi Ͽ 0.90 ltr/10 sqm over an u ture	th Deluxe N	lulti Surfa	ice Paint to	give an even	shade. Tw	o or more coat
			18.000	sqm	154.62	2783.16	157.30	2831.40
23	13.71 Lettering	with black Japan pint of app	roved brand	and man	ufacture			
			1500.00 0	Letterxc m ht	5.8	8700.00	5.85	8775.00
24 11.21.1.1 Providing and fixing 10 mm thick acid and /or alkali resistant tiles of approved make and colour / or alkali resisting mortar bedding, and joints filled with acid and /or alkali resisting cement as complete as per the direction of Engineer-in-Charge.In flooring on a bed of 10 mm thick mor proof cement : 4 coarse sand)Acid and alkali resistant tile								
	1	6.	54.000	sqm	1836.85	99189.90	2098.50	113319.00
26	cement : mixed wit od173455 Providing	in skirting, risers of steps a 3 coarse sand) and jointed with h pigment of matching shad 5/2020_2021 g and fixing MS hook of 22m dards including painting the	with grey cer e complete. 5.480 rala Wa	ment slur Marble til sqm ater A	ry @ 3.3 kg es (polishe 1523.0 uthorit	g/sqm, including ed) Raj Nagar8 8346.04 y	g pointing in 3 mm thick 1532.50	n white cement 8398.10
			12.000	No	301.61	3619.32	377.95	4535.40
27	hoisting,	rk in built up tubular (round, fixing position and applying cial shaped washers etc. co	a priming o mplete.Hot	coat of ap	oproved ste seamless t	eel primer, incl ype tubes	uding weld	ing and bolted
	1		123.241	kg	193.47	23843.44	209.55	25825.15
SI No 15	Spec Civil wor	Description rk (b)Construction of Electric work.(2).Const				•	LMR Rate	LMR Amount
1	cm meas	jungle including uprooting of ured at a height of 1 m abov hery of the area cleared	rank vegeta	ation, gra	ss, brush v	rood, trees and		• •



•	
2	2.8.1
	Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches
	or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming o
	bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as
	directed, within a lead of 50 m.All kinds of soil
	36.000 cum 309.95 11158.20 319.55 11503.80
3	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 mn
	nominal size)
	4.801 cum 7690.32 36921.23 9884.65 47456.20
4	7.1.1
4	
	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 leve
	with:Cement mortar 1:6 (1 cement : 6 coarse sand)
	36.800 cum 7520.41 276751.09 8030.80 295533.44
5	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 tot 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)
	Kerala Water Authority 48033.94 13791.85 57939.56
	11433.93 10000.01 10101.00 01000.00
6	2.2.1
	Earth work in rough excavation, banking excavated earth in layers not exceeding 20 cm in depth, breaking
	clods, watering, rolling each layer with 1/2 tonne roller or wooden or steel rammers, and rolling every 3rd and
	top-most layer with power roller of minimum 8 tonnes and dressing up in embankments for roads, flood banks
	marginal banks and guide banks or filling up ground depressions, lead up to 50 m and lift up to 1.5 m:All kinds
	of soil
	500.000 cum 917.54 458770.00 928.20 464100.00
7	od165801/2020_2021
	Dry rubble masonry with hard stone in foundation and plinth including leveling 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:
	500.000 cum 4957.19 2478595.00 4681.30 2340650.00
8	5.1.3
	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering
	shuttering, finishing and reinforcement - All work up to plinth level:1:2:4 (1 cement : 2 coarse sand : 4 graded
	stone aggregate 20 mm nominal size)
	250.000 cum 8964.72 2241180.00 11245.05 2811262.50

9		and shuttering including str etc for mass concrete	utting, et	c. and re	moval of fo	orm for:Founda	ations, foot	ings, bases of
			220.001	sqm	350.0	77000.35	347.55	76461.35
10		orcement for R.C.C work incluipto plinth levelThermo - Mec	-		-	• • •	•	and binding all
			15420.0 01	kilogram	102.61	1582246.30	120.80	1862736.12
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
		19	2- Electro	omechani	cal works			
		No Specif	cations a	dded und	er this Estir	nate		
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
21	2(a)- Sup	oply, erection, testing and com compound- (1)		-			ed works at	Alady plant
1	Erection of	/2018_2019 of RCC/ PCC pole of following cement concrete (1:3:6) layer						-
			2.000	Nos	4957.0	9914.00	4957.00	9914.00
2	Supplying having for size 1400 including	/2018_2019 Kera and erection of a set of cross ar members fabricated out of mm width X 2500 mm heigh drilling holes for insulator pir ht as required.	ss bracing 50 mm X at, comple	frame w (50 mm / ete with 50	X 6 mm an 0 mm X 6n	KV over head I gle iron to form nm M.S. flat irc	n a rectang on clamps,	le of minimum bolts and nuts
			1.000	set	6552.0	6552.00	6552.00	6552.00
3		/2018_2019 f double pole 3 wire cross arn	n for 11 K	V/22 KV/3	33 KV over	head lines as r	equired.	
	<u>I</u>		3.000	Nos	967.0	2901.00	967.00	
			0.000	1100	907.0	2001100	007.00	2901.00
4		/2018_2019 and erection of 11 kV pin in	1	I	<u> </u>			



5 od194699/2018_2019

Supplying and erection of three piece nonlinear resistor type lightning arrestor suitable for 3 wire, 11 kV overhead lines with rated voltage 9 kV (rms) with a nominal discharge current rating of 5 kA and complete with galvanised clamping arrangement, G.I. bolts, nuts, washers etc. as required.

					-						
		1.000	set	3601.0	3601.00	3601.00	3601.00				
6	od194700/2018_2019										
	OUTDOOR HT BREAKER PANEL (LBS) Supply, Installation, Testing & Commissioning of 11kV Outdoor H										
	Breaker Panel with the following components. 11kV Load Break Swich 11kV, 350 MVA, 630A, LBS unit - 1 s										
	Voltmeter (0 - 11kV) - 3 Nos LED Pilot Indication - LBS ON / OFF - 1 Set Trip Push buttons - 1 set 2NO+2N										
	Aux contacts - 1 Set 230V AC Shunt Trip Coil - 1 No Aluminium Busbar - 1 Set Seal off Bushings - 3 No										
	Space Heater Element with Thermostat & wiring - 1 Nos Inspection Lamp LED with switch & wiring - 1 se										
	Metering Chamber PT - 100 VA, 11kV/110V, CL 0.2S - 1 No CT - */5A, 15VA, CL 0.2S - 3 Nos Provisions fo										
	mounting 3 phase, 4wire, HT CT/PT o					•	-				
	wiring and test terminal block, site glass		-			-	•				
	of voltage circuit including power supp	- Contraction of the second se			-	•					
	shall not exceed 1.0 Watt & 4.0 VA per			S & 1.1		-					
	basic current, reference frequency & re					•					
	shall be inclusive of necessary control wiring, components working on LT supply should be prewired										
	completely with necessary controls as specified till the connection point for feeding LT Supply from outside Cable end box for receiving incoming and outgoing cables and suitable civil foundation etc as required.)										
	Supply & Labour	j and outg	joing cab	les and su			as required.)				
	Ker	ala Wa	ater A	uthorit	V						
		1.000	set		215359.00	215359.0	215359.00				
		\mathbf{D}^{-}		215359.0		0					
,	od194701/2018_2019										
	LIT Diding ation of TOD Mater Complete		a 2 a h a c	A living	IT OT DT and	اما اممدمه	in a stick and suith				

HT Bidirectional TOD Meter Supply & Providing 3 phase, 4wire, HT CT/PT operated, bi-directional with accuracy class 0.2S for both Active and Reactive energy, -/5A, HT static tri vector meter with TOD register, DLMS compliant & AMR compatible with optical port and RS232 port having ISI Marking, suitable for measurement of active kWh, reactive energy kVARh and apparent energy kVAh and kVA MD, kW MD at nominal frequency in the range of 47.5 Hz to 52.5 Hz in balanced as well as unbalanced load conditions in the existing outdoor Meter cubicle including testing & commissioning etc. complete.

		1.000	set	43954.0	43954.00	43954.00	43954.00
8	od194702/2018_2019						

HT Equipment Pinth, Substation Yard Fencing & Levelling- Providing, fabricating and fixing 2m high chainlink fencing over 4mm thick barbed wire with a framework of 50x50x6mm MS angle between vertical posts of ISMC 75 at 2400mm interval, Earthing as per KSEI/KSEB standards shall be done around the periphery of the fencing. The MS framework for chainlink fencing shall be Hot Dip Galvanised. The rate shall be inclusive of all materials, labour, lead, lift etc including escalation works and fabrication and assembly works including all nuts, bolts and other miscallaneous items etc complete as per drawing and as directed by the Engineer in Charge.

			20.000	metre	1298.0	25960.00	1298.00	25960.00			
9	od194703	8/2018_2019									
		g and filling the substatior	n yard with	40mm s	ize blue je	lly of 150mm	thick inclu	ding cost ar			
	conveyance of all materials, labour charges etc complete										
			5.000	cum	3017.0	15085.00	3017.00	15085.00			
10	7.1.1										
	Random	rubble masonry with hard st	one in foun	dation an	d plinth inc	luding levelling	up with ce	ment concre			
	1:6:12 (1	cement : 6 coarse sand :	12 graded	l stone a	ggregate 2	20 mm nomina	ıl size) up	to plinth lev			
	with:Cem	ent mortar 1:6 (1 cement	: 6 coarse	sand)				-			
			2.000	cum	7520.41	15040.82	8030.80	16061.60			
11	od194705/2018_2019										
		Transformer- Supply, instal	lation testir	ng and co	mmissionir	na of one numb	er 400 k\/A	DYn11 3F			
		0.433 kV,ONAN cooled, co		•		•					
	transform	10% in steps of 2.5% with OFTC. The HT side & LT side shall have cable end box for XLPE cable. The transformer shall have suitable enclosure for The HT side & LT side. The transformer shall be complete with									
	all standa	rd accessories and fittings &	& conform to	IS:2026	The rate s	hall be inclusiv	e of all ma	terials, lead,l			
	first fill of	oil, necessary civil works fo	r mounting t	to the exis	sting transf	ormer foundati	on complet	e as per sing			
	line scher	matic diagram & particular s	pecification	S.							
		200									
			1.000	aat	2.7	631587.00	631587.0	631587.00			
		Ke	rala Wa	set	631587.0	031567.00 V	0	031307.00			
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount			
22	2(a)- Su	pply, erection, testing and co		•			ed works at	Alady plant			
		compound-(2)- LT / MV	PANELS	& ACCES	SORIES					



1 od201682/2018_2019

PCC PANEL - Supply, fabrication, erection, testing and commissioning of cubicle type fully compartmentalised, dust tight, vermin proof, water proof 800A LT- Main MV Panel falling to IP54 category fabricated out of 16 SWG CRCA Sheet Steel painted as per standards with Alumimium Busbars of suitable size, earth bus of adequate capacity, double earth connection to all switches, internal rigid connection etc. including suitable chambers, front open, top cable entry with water proof shrouding, free standing panel consisting of the following as per standards (All switches shall confirm to conforming to IEC 60947-2 standards). Incommer 800A FP Microprocessor based MDO ACB (35kA) - 1 Nos. Restricted Earth Fault Relay - 1 Set 800A TPN best conductivity Aluminium busbar with SMC supports, heat shrinkable sleeves etc. as per ISS - 1set RYB indicators (LED Pilot type) with 2A Control MCB and toggle switches - 4 Set Multifunction Digital Panel meter to read V, A, F, PF, kW, kVA, kVAR, kWh, kVAh, kVARh Class 1.0 - 1 Set 800/5A CL 1.0, 15VA Metering CTs - 1 Set Outgoings: 630A, 35kA 4P MCCB - 2 Nos. 200A FP SDFU (100kA) - 2 Nos. 63A FP SDFU (100kA) - 1 Nos. Surge Protection Pluggable type surge arrester with potential free contact, thermal disconnector & provision for inbuilt common remote indication for defective arresters to connect between Line and Neutral and one number Spark Gap type arrester to connect between Neutral and Earth of following ratings including base element & pluggable arresters. Nominal voltage 230V, 50Hz, Nominal Discharge current 30 kA (8/20 sec) for Line to Neutral & 50 kA (8/20 sec) for Neutral to Earth, Maximum Discharge Current Imax 50 kA (8/20 sec) -1Set Supports The panel shall be supported to ground using framework fabricated out of MS Flats / Angles etc. painted with two coats of Zinc Chromate primer and two coats of enamel paint. The framework shall be firmly supported to ground using suitable cement concrete plinth. The Panel Board shall be provided with 25 x 3mm copper earth bus for the full length. Painting letters / identifications for the incoming and outgoing switches, cable, fuse sizes, etc., in white enamel paint. The board shall be fabricated in such a way that future extension be possible. Supply & Labour

TT I TTT A I I	
Kerala Water Authority 1.000 set 294498.0 294498.0	00 294498.0 0 294498.00

od194956/2018_2019

WTP - MCC PANEL- Supply, fabrication, erection, testing and commissioning of cubicle type fully compartmentalised, dust tight, vermin proof, water proof 200A MV Panel falling to IP54 category fabricated out of 16 SWG CRCA Sheet Steel painted as per standards with Alumimium Busbars of suitable size, earth bus of adequate capacity, double earth connection to all switches, internal rigid connection etc. including suitable chambers, front open, top cable entry with water proof shrouding, free standing panel consisting of the following as per standards (All switches shall confirm to conforming to IEC 60947-2 standards). Incoming : 200A TPN Isolator - 1 No. 200A TPN best conductivity Aluminium busbar with SMC supports, heat shrinkable sleeves etc. as per ISS - 1set Multifunction Digital Panel meter to read V, A, F, PF, kW, kVA, kVAR, kWh, kVAh, kVARh Class 1.0 - 1 Set RYB indicators (LED Pilot type) with 2A Control MCB and toggle switches - 1 Set 200/5A CL 1.0, 15VA Metering CTs - 1 Set Outgoings: 100A TPN SDFU (100kA) - 3 Nos. 32A TP D curve MCB (10kA) - 6 Nos. 25A TP D curve MCB (10kA) - 3 Nos. 10A TP D curve MCB (10kA) - 4 Nos. Supports The panel shall be supported to ground using framework fabricated out of MS Flats / Angles etc. painted with two coats of Zinc Chromate primer and two coats of enamel paint. The framework shall be firmly supported to ground using suitable cement concrete plinth. The Panel Board shall be provided with 25 x 3mm copper earth bus for the full length. Painting letters / identifications for the incoming and outgoing switches, cable, fuse sizes, etc., in white enamel paint. The board shall be fabricated in such a way that future extension be possible. Supply & Labour

2



		i			1	
	1.000	set	84484.0	84484.00	84484.00	84484.00
od194957/2018_2019						
APFC PANEL -Automatic Power Factor C	Correctio	on Panel c	of total 40 K	VAR capacity	with Auto /	Mannual mode
operation to be fabricated out of 14 gua	age CR	CA sheet	steel Pow	der coated wi	th provisio	n for capacitor
mounted inside the panel with adequate	e numbe	er of louv	ers and po	wder coated v	with approv	ved shade and
having following specific components(ref	fer partio	cular spec	cification) v	vith Alumimium	n Busbars c	of suitable size,
earth bus of adequate capacity, double ea	arth con	nection to	all switche	es, internal rigio	d connectio	n etc. including
suitable chambers, front open, top cat	ole entr	y, free s	tanding pa	anel consisting	g of the fo	llowing as per
standards. Incomer 100A TPN Isolator	- 1 No.	100 A TF	PN best co	nductivity Alu	minium bus	bar with SMC
supports, heat shrinkable sleeves etc. as	s per ISS	S - 1set M	Iultifunctior	Digital Panel	meter to re	ad V, A, F, PF,
kW, kVA, kVAR, kWh, kVAh, kVARh Clas	ss 1.0 -	1 Set RY	B indicator	s (LED Pilot ty	pe) with 2	A Control MCB
and toggle switches- 1 Set 100/5A 15VA	A CL 1.0) Metering	g CTs - 3 S	Sets Microproc	essor base	d intelligent, 8
step IPFC relay with PF display - 1 No. C	•	•				
TP MCB - 1 Nos 16A, 10kA C Curve TP I	MCB - 2	Nos 10A	, 10kA C C	urve TP MCB	- 1 Nos 6A,	10kA C Curve
TP MCB - 3 Nos Capacitor duty contactor	rs worki	ng on 3 P	hase 415V	AC supply of	the followin	g ratings wired
with Pilot LED indication for ON & OFF, P					•	
contacts for all the stages 15 kVAr - 1 N						
polypropylene (MPP heavy duty) Capa					•	
load losses. 15 kVAr - 1 Nos 10 kVAr- 1						
shall be provided with 25 x 3mm copper						
incoming and outgoing switches, cable, fu						
panel shall be supported to ground using					•	
coats of Zinc Chromate primer and two			•			
ground using suitable cement concrete p				V ·		
bus for the full length. Painting letters /			r the incom	ning and outgo	oing switche	es, cable, fuse
sizes, etc., in white enamel paint. Suppl	ly & Lat	oour		H		

			1.000	set	119898.0	119898.00	119898.0 0	119898.00
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount

23 2(a)- Supply, erection, testing and commissioning of 400 KVA Transformer and allied works at Alady plant compound- (3)- DISTRIBUTION BOARDS, SWITCHGEAR & ACCESSORIES

od194998/2018_2019

Supply, installation, testing & commissioning of best quality sheet steel, phosphatised and painted, dust and vermin proof enclosure (IP43) Vertical TPN Double door DB including copper bus bar, neutral link, earth bus and DIN rail suitable for fixing RCCB + Isolator (8 module)as incommer and SP/TP MCB as outgoings etc. on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall, making good the damages, colour washing, dressing the DB including termination etc. as required. (Including closing vaccant slots using Dummy) - 12 Way

	1.000	No	11136.0	11136.00	11136.00	11136.00



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	od194999/2018_2019 Supply and providing the following MCCB/ RCCB / MCB / MCB Isolators/COS etc. to the existing DBs / MCS / Junction Boxes etc. including giving proper termination using suitable Bananna copper lugs, sleeves insulation etc. complete. 63A, 100mA 3Ph RCCB									
			1.000	No	6640.0	6640.00	6640.00	6640.00		
3	Supply an Junction	/2018_2019 d providing the follov Boxes etc. includin etc. complete. 63,	ig giving proper to	erminatio				-		
			1.000	No	1050.0	1050.00	1050.00	1050.00		
		Boxes etc. includin etc. complete. 6A	to 32A , 10kA S	P MCB	X	A.				
			36.000	No	181.0 DSOR Rate	6516.00	181.00	6516.00 LMR Amount		
~ 4	0(a) Cum	why are stice to stice	and commissionir	ng of 400	KV/A Trans	former and allie	d worke at			
1	od195885 HT Powe screened conductin tape, galv	2018_2019 r Cables - Supply & with extruded semi g compound in comb anized steel flat strip ch conforming to IS:	ound- (4)- CABLES Kerala Wa & laying 11KV stra conducting compo pination with copped armoured, and ov	anded co und XLPP tape (0. erall PVC	S & ACCES uthorit mpact circ insulated, 3 kA for 1 s sheathed o	SORIES cular aluminiur , insulation scro sec.), cores laid cable of the foll	n conducto eened with d up, inner owing sizes	or, conductor extruded sen sheath of PV		
	od195885 HT Powe screened conductin tape, galv	comp /2018_2019 r Cables - Supply & with extruded semi g compound in comb anized steel flat strip	ound- (4)- CABLES Kerala Wa & laying 11KV stra conducting compo- pination with copper armoured, and ov 7098 part II 1985 v	anded cc und XLPP er tape (0. erall PVC with latest	S & ACCES uthorit mpact circ insulated, 3 kA for 1 s sheathed o	SORIES cular aluminiur , insulation scro sec.), cores laid cable of the foll	n conducto eened with d up, inner owing sizes	or, conductor extruded sen sheath of PV		
	od195885 HT Powe screened conductin tape, galv cable tren od195886 HT Powe screened conductin tape, galv	comp /2018_2019 r Cables - Supply & with extruded semi g compound in comb anized steel flat strip	ound- (4)- CABLES Kerala Wa & laying 11KV strate conducting componentiation with copped armoured, and over 7098 part II 1985 was 25.000 & laying 11KV strate conducting componentiation with copped armoured, and over 25.000 & laying 11KV strate conducting componentiation with copped armoured, and over	Anded co and ALPE and ALPE or tape (0. erall PVC with latest metre anded co und XLPE or tape (0. erall PVC	S & ACCES uthorit mpact circ insulated, 3 kA for 1 s sheathed c amendmen 2281.0 mpact circ insulated, 3 kA for 1 s sheathed c	SORIES y cular aluminiur , insulation scre sec.), cores laid cable of the foll nts. 3C x 300 S 57025.00 cular aluminiur , insulation scre sec.), cores laid cable of the foll	n conducto eened with d up, inner owing sizes aqm 2281.00 n conducto eened with d up, inner owing sizes	or, conductor extruded ser sheath of PV in the existin 57025.00 or, conductor extruded ser sheath of PV		

	od195980/2018_2019 HT Cable Terminations Supplying an including lugs and other jointing ma grade as required. 3C x 150 Sqmm	aterials, for f					
		1.000	set	7664.0	7664.00	7664.00	7664.00
4	od195981/2018_2019 HT Cable Terminations Supplying an including lugs and other jointing ma grade as required. 3C x 300 Sqmm	aterials, for f					
		1.000	set	10002.0	10002.00	10002.00	10002.00
5	od195993/2018_2019 HT Cable Termination- Supplying a including lugs and other jointing mat grade as required. 3C x 150 Sqmm			and the second second second	-		
	R	1.000	set	12802.0	12802.00	12802.00	12802.00
	HT Cable Terminations - Supplying including lugs and other jointing mat grade as required. 3C x 300 Sqmm	erials, for fo	r following	g sizes, XL	PE aluminium		
	including lugs and other jointing mat	erials, for fo	r following	g sizes, XL	PE aluminium		
7	including lugs and other jointing mat	erials, for for erala Wa 1.000 g UG AYFY	set	g sizes, XL uthorit 14660.0 sulated and	PE aluminium 14660.00 d PVC sheath	conductor of 14660.00	um conductor
7 8	including lugs and other jointing mat grade as required. 3C x 300 Sqmm od195889/2018_2019 LT Power Cables - Supply & layin	erials, for fo rala Wa 1.000 g UG AYFY rade of follo 120.000 UG AYFY, rade of follo	r following ater A set yever ins wing size PVC ins wing size	g sizes, XL uthorit 14660.0 sulated and es through 1752.0 ulated and es through	PE aluminium y 14660.00 d PVC sheath trench/wall/ c 210240.00 I PVC sheath trench/wall/ c	conductor of 14660.00 ed Alumini eiling. 3.50 1752.00 ed Alumini eiling. 3.50	cable of 11 KV 14660.00 um conductor x 185 Sqmm 210240.00 um conductor x 150 Sqmm
	including lugs and other jointing mat grade as required. 3C x 300 Sqmm od195889/2018_2019 LT Power Cables - Supply & laying armoured power cable of 1.1 KV gr od195890/2018_2019 LT Power Cables Supply & laying	erials, for fo rala Wa 1.000 g UG AYFY rade of follo 120.000 UG AYFY, rade of follo 60.000	r following ater A set yeve ins wing size PVC ins wing size metre PVC ins	g sizes, XL uthorit 14660.0 sulated and es through 1752.0 ulated and es through 1241.0 ulated and	PE aluminium Y 14660.00 d PVC sheath trench/wall/ c 210240.00 I PVC sheath trench/wall/ c 74460.00 I PVC sheath	conductor of 14660.00 ed Alumini eiling. 3.50 1752.00 ed Alumini eiling. 3.50 1241.00 ed Alumini	cable of 11 KV 14660.00 um conductor x 185 Sqmm 210240.00 um conductor x 150 Sqmm 74460.00 um conductor



10	od195892/2018_2019 LT Power Cables Supply & laying UC armoured power cable of 1.1 KV grad						
		30.000	metre	421.0	12630.00	421.00	12630.00
11	od195893/2018_2019 LT Power Cables - Supply & laying U armoured power cable of 1.1 KV grad						
		30.000	metre	350.0	10500.00	350.00	10500.00
12	od195894/2018_2019 LT Power Cables - Supply & laying U armoured power cable of 1.1 KV grad						
		75.000	metre	216.0	16200.00	216.00	16200.00
13	od195895/2018_2019 LT Power Cables - Supply & laying U armoured power cable of 1.1 KV grac						
		105.000	metre	179.0	18795.00	179.00	18795.00
14	od195896/2018_2019 LT Power Cables - Supply & laying UG Power / Control cable of 1.1 KV grade o	2XFY,PV if the follo	C insulat	es through	C sheathed Co trench/wall/ cei	iling - 4C x	2.5 Sqmm
		50.000	metre	305.0	15250.00	305.00	15250.00
15	od195897/2018_2019 LT Power Cables - Providing cable glan sizes using Siemens type Brass compre			-			-
		6.000	No	1245.0	7470.00	1245.00	7470.00
16	od195898/2018_2019 LT Power Cables - Providing cable glan sizes using Siemens type Brass compre	0.0		0			•
		8.000	No	917.0	7336.00	917.00	7336.00
17	od195899/2018_2019 LT Power Cables - Providing cable glan sizes using Siemens type Brass compre			-			-
		4.000	No	548.0	2192.00	548.00	2192.00



Ρ	R	10	2	E

18	od195900/2018_2019 LT Power Cables - Providi sizes using Siemens type				-			-
			4.000	No	437.0	1748.00	437.00	1748.00
19	od195901/2018_2019 LT Power Cables - Providi sizes using Siemens type				-			
			4.000	No	398.0	1592.00	398.00	1592.00
20	od195902/2018_2019 LT Power Cables - Providi sizes using Siemens type				-			
21	od195903/2018_2019 LT Power Cables - Providi sizes using Siemens type	-	anding, gla	and earthi	ng & end t	ermination of L	JG cables	of the following
	_		14.000	No	225.0	3150.00	225.00	3150.00
22	od195904/2018_2019 LT Power Cables - Providi sizes using Siemens type				-			
			2.000	No	211.0	422.00	211.00	422.00
23	od195905/2018_2019 LT Power Cables - Supply Copper conductor round f 8130/1984 Insulated and conforming to IS 694/1990 casing capping wall. 3C x	lexible wire sheathed v) for workin	manufact vith electr	ured with ical grade	bright anr e PVC cor	nealed bare co mpound as per	pper condi · IS 5831/	uctor as per IS 1984 generally
			25.000	metre	47.0	1175.00	47.00	1175.00
24	od195906/2018_2019 LT Power Cables - Supply Copper conductor round f 8130/1984 Insulated and conforming to IS 694/1990 casing capping wall. 3C x	lexible wire sheathed v) for workin	manufact vith electr	ured with ical grade	bright anr e PVC cor	nealed bare co mpound as per	pper cond · IS 5831/	uctor as per IS 1984 generally
			25.000	metre	88.0	2200.00	88.00	2200.00
			20.000	mene	0.00	2200.00	00.00	2200.00



25	od195907/2018_2019						
	PVC Conduits - Supply a		-		-		•
	confirming to IS 9537/		conceale	ed positio	n making go	od the da	mages mac
	etc.complete.20mm dia	, 1.5mm thick					
	1	350.000	metre	88.0	30800.00	88.00	30800.00
26	od195908/2018_2019						
	PVC Conduits - Supply a	nd providing the follo	wing size	e of ISI M	arked rigid PV	C conduits	with specia
	confirming to IS 9537/	1983 on surface c	onceale	d positior	n making goo	od the da	mages mad
	etc.complete.25mm dia	, 1.5mm thick					
		250.000	metre	107.0	26750.00	107.00	26750.00
27	od195909/2018_2019						
	PVC Conduits - Supply a	nd providing the follo	owing size	e of ISI M	arked rigid PV	C conduits	with specia
	confirming to IS 9537/198	3 on surface conceal	ed positio	on making	good the dam	ages made	etc.comple
	32mm dia 1.5mm thick	6. 55.		NG-			
		100.000	metre	138.0	13800.00	138.00	13800.00
28	od195910/2018_2019						
	PVC Conduits- Supply & pi	oviding Capping / Cas	sing of goo	od quality o	of the following	sizes. 20 m	m
		100.000	metre	43.0	4300.00	43.00	4300.00
		100.000	metre	40.0	4000.00	40.00	4000.00
29	od195911/2018_2019 PVC Conduits- Supply & pr	oviding Capping / Cas	sing of goo	od quality c	of the following	sizes. 25 m	m
		100.000	metre	49.0	4900.00	49.00	4900.00
30	od195912/2018_2019						
	UG Cable Tamper Protec	tion- Supply & laying	the follow	ving size o	of B class GI F	Pipe for UG	Cable tamp
	protection in the existing	rench in position etc.	complete	e.50 mm			
						1	
		10.000	metre	379.0	3790.00	379.00	3790.00
31	od195913/2018_2019						
	UG Cable Tamper Protec	tion- Supply & laying	the follow	ving size o	of B class GI F	Pipe for UG	Cable tamp
	protection in the existing			-			
		10.000	metre	485.0	4850.00	485.00	4850.00
20							
32	od195914/2018_2019	wiring the following o	vize of D	/C inculate	d ooppor wire	monufactu	rad with brig
	Circuit Mains- Supply and annealed bunched electro						-
	compound per as IS 5831/		•				-
	1100 V.through the existing	•	-		-	• ·	
	estimate	,	0	•	1		1



angles 25x25x6mm (ISA) and 25x6mmMS flats with and 20cm spacing between successive cross member and supported using 25cm long 32x6mm MS flat at every 1m spacing. The cable trays and supports shall painted with two coats of Zinc Chromate primer and two coats of enamel paint. Kernological Science 500.000 kg 142.0 71000.00 142.00 71000.00 36 od195918/2018_2019 Cable Supports & Trenching- Supply and providing 6mm MS chequered plate of suitable thickness includic cutting, welding, painting etc. as required for the cable trench covering. 100.000 kg 121.0 12100.00 121.00 12100.00 37 od195919/2018_2019 Cable Supports & Trenching - Charges for making cable trenches in all type of soil including providing cour burnt bricks breadth wise above the cable, providing sand cushioning of 150mm refilling & restoring norn surface etc.complete as per standards of the following size. 35 cm Wide x 100 cm Deep (HT Cables) 100.000 38 od195920/2018_2019 Cable Supports & Trenching - Charges for making cable trenches in all type of soil including providing cour burnt bricks breadth wise above the cable, providing sand cushioning of 150mm refilling & restoring norn surface etc.complete as per standards of the following size. 35 cm Wide x 100 cm Deep (HT Cables) 38 od195920/2018_2019 Cable Supports & Trenching - Charges for making cable trenches in all type of soil including providing cour burnt bricks breadth wise above the cable, providing sand cushioning of 150mm refilling & restoring norn surface etc.complete as per standards			100.000								
annealed bunched electrolytic copper conductor as per IS 8130/1984 insulated with di-electrical grade P compound per as IS 5831/1984 Generally Conforming to IS 694/1990 for working voltage up to and includ 1100 V.through the existing PVC conduits / capping casing. 3 run x 2.5 Sqmm - SPN + E - rate as per vette estimate. 200.000 metre 154.0 30600.00 154.00 30600.00 34 od195916/2018_2019 Circuit Mains- Supply and wining the following size of PVC insulated copper wire manufactured with brit annealed bunched electrolytic copper conductor as per IS 8130/1984 insulated with di-electrical grade P compound per as IS 5831/1984 Generally Conforming to IS 694/1990 for working voltage up to and includ 1100 V.through the existing PVC conduits / capping casing. 3 run x 1.5 sqmm - SPN + E 350.000 metre 118.0 41300.00 118.00 41300.00 35 od195917/2018_2019 Cable Supports & Trenching- Supply and erection of Cable trays and cable supports fabricated out of 1 angles 25x25x6mm (ISA) and 25x6mmMS flats with and 20cm spacing between successive cross memb and supported using 25cm long 32x6mm MS flat at every 1m spacing. The cable trays and supports shall painted with two coats of Zinc Chromate primer and two coats of enamel paint. 100.000 fig 1142.0 71000.00 142.00 71000.00 Cable Supports & Trenching - Supply and providing 6mm MS chequered plate of suitable thickness includ cutting, welding, painting etc. as required for the cable trench covering. </th <th>33</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	33										
compound per as IS 5831/1984 Generally Conforming to IS 694/1990 for working voltage up to and includ 1100 V.through the existing PVC conduits / capping casing. 3 run x 2.5 Sqmm - SPN + E - rate as per vettestimate. 200.000 metre 154.0 30800.00 154.00 30800.00 34 od195916/2018_2019 Circuit Mains- Supply and wiring the following size of PVC insulated copper wire manufactured with brid annealed bunched electrolytic copper conductor as per IS 8130/1984 insulated with di-electrical grade PI compound per as IS 5631/1984 Generally Conforming to IS 694/1990 for working voltage up to and includ 1100 V.through the existing PVC conduits / capping casing. 3 run x 1.5 sqmm - SPN + E 350.000 metre 118.0 41300.00 118.00 41300.00 36 od195917/2018_2019 Strenching- Supply and erection of Cable trays and cable supports fabricated out of I angles 25x5x6mm (ISA) and 25x6mmMS flat at every 1m spacing. The cable trays and supports shall painted with two coats of Zinc Chromate primer and two coats of enamel paint. 36 od195918/2018_2019 100.000 kg 121.0 121.00			•			••					
1100 V.through the existing PVC conduits / capping casing. 3 run x 2.5 Sqmm - SPN + E - rate as per vetile estimate. 200.000 metre 154.0 30800.00 154.00 30800.00 34 od195916/2018_2019 Circuit Mains- Supply and wiring the following size of PVC insulated copper wire manufactured with brid annealed bunched electrolytic copper conductor as per IS 8130/1984 insulated with di-electrical grade PV compound per as IS 5831/1984 Generally Conforming to IS 694/1990 for working voltage up to and includ 1100 V.through the existing PVC conduits / capping casing. 3 run x 1.5 sqmm - SPN + E 350.000 metre 118.0 41300.00 118.00 41300.00 35 od195917/2018_2019 Cable Supports & Trenching- Supply and erection of Cable trays and cable supports fabricated out of I angles 25x25x6mm (ISA) and 25x6mmMS flats with and 20cm spacing. The cable trays and supports shall painted with two coats of Zinc Chromate primer and two coats of enamel paint. Vertical Scient Ong 32x6mm MS flat at every 1m spacing. The cable trays and supports shall painted with two coats of Zinc Chromate primer and two coats of enamel paint. Vertical Scient Sign Scient MS Sign Scient MS Sign Scient Sign Sign Sign Sign Sign Sign Sign Sign			-	-				-			
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200.000 metre 154.0 30800.00 154.00 30800.00 34 od195916/2018_2019 Circuit Mains- Supply and wiring the following size of PVC insulated copper wire manufactured with brig annealed bunched electrolytic copper conductor as per IS 8130/1984 insulated with di-electrical grade P compound per as IS 5831/1984 Generally Conforming to IS 694/1990 for working voltage up to and includ 1100 V.through the existing PVC conduits / capping casing, 3 run x 1.5 sqmm - SPN + E 350.000 metre 118.0 41300.00 118.00 41300.00 355 od195917/2018_2019 cable Supports & Trenching- Supply and erection of Cable trays and cable supports fabricated out of f angles 25x25x6mm (ISA) and 25x6mmMS flats with and 20cm spacing between successive cross membra and supported using 25cm long 32x6mm MS flat at every 1m spacing. The cable trays and supports shall painted with two coats of Zinc Chromate primer and two coats of enamel paint. VETTING 1142.00 71000.00 kg 142.00 71000.00 36 od195918/2018_2019 cast required for the cable trench covering. 100.000 kg 121.0 121.00 121.00 121.00.00 37 od195919/2018_2019 cable supports & Trenching - Charges for making cable trenches in all type of soil including providing cour burnt bricks breadth wise above the cable, providing sand cushioning of 150mm refilling & restoring nor surface etc.complete as per standards of the fo		1100 V.through the existing PVC of	conduits / cappi	ng casin	g. 3 run x 2	2.5 Sqmm - SP	N + E - rate	e as per vett			
34 od195916/2018_2019 Circuit Mains- Supply and wiring the following size of PVC insulated copper wire manufactured with brig annealed bunched electrolytic copper conductor as per IS 8130/1984 insulated with di-electrical grade P compound per as IS 5831/1984 Generally Conforming to IS 694/1990 for working voltage up to and includ 1100 V.through the existing PVC conduits / capping casing. 3 run x 1.5 sqmm - SPN + E 350.000 metre 118.0 41300.00 118.00 41300.00 35 od195917/2018_2019 Cable Supports & Trenching- Supply and erection of Cable trays and cable supports fabricated out of I angles 25x25x6mm (ISA) and 25x6mmMS flats with and 20cm spacing between successive cross membra and supported using 25cm long 32x6mm MS flat at every 1m spacing. The cable trays and supports shall painted with two coats of Zinc Chromate primer and two coats of enamel paint. VIET Authority 71000.00 142.0 71000.00 142.0 71000.00 142.0 71000.00 142.0 71000.00 142.0 71000.00 142.0 71000.00 142.0 71000.00 142.0 71000.00 142.0 71000.00 142.0 71000.00 100.000 kg 121.00		estimate.									
34 od195916/2018_2019 Circuit Mains- Supply and wiring the following size of PVC insulated copper wire manufactured with brig annealed bunched electrolytic copper conductor as per IS 8130/1984 insulated with di-electrical grade P compound per as IS 5831/1984 Generally Conforming to IS 694/1990 for working voltage up to and includ 1100 V.through the existing PVC conduits / capping casing. 3 run x 1.5 sqmm - SPN + E 350.000 metre 118.0 41300.00 118.00 41300.00 35 od195917/2018_2019 Cable Supports & Trenching- Supply and erection of Cable trays and cable supports fabricated out of I angles 25x25x6mm (ISA) and 25x6mmMS flats with and 20cm spacing between successive cross membra and supported using 25cm long 32x6mm MS flat at every 1m spacing. The cable trays and supports shall painted with two coats of Zinc Chromate primer and two coats of enamel paint. VIET Authority 71000.00 142.0 71000.00 142.0 71000.00 142.0 71000.00 142.0 71000.00 142.0 71000.00 142.0 71000.00 142.0 71000.00 142.0 71000.00 142.0 71000.00 142.0 71000.00 100.000 kg 121.00											
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100.000 metre 640.0 64000.00 640.00 64000.00 38 od195920/2018_2019 Cable Supports & Trenching - Charges for making cable trenches in all type of soil including providing count burnt bricks breadth wise above the cable, providing sand cushioning of 150mm refilling & restoring norm surface etc.complete as per standards of the following size. 35 cm Wide x 75 cm Deep (LT Cables)		angles 25x25x6mm (ISA) and 25x and supported using 25cm long 32 painted with two coats of Zinc Chr od195918/2018_2019 Cable Supports & Trenching- Sup cutting, welding, painting etc. as re od195919/2018_2019 Cable Supports & Trenching - Cha	c6mmMS flats w 2x6mm MS flats romate primer a 500.000 oply and providin equired for the 100.000	vith and 2 at every nd two c ter A kg a 6mm cable tre kg	20cm spac 1m spacin oats of ena 142.0 MS cheque nch coveri 121.0 enches in a	ing between su g. The cable tr amel paint. 71000.00 ered plate of su ng. 12100.00 all type of soil in	142.00 121.00	ross membe pports shall 71000.00 ness includi 12100.00			
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surface etc.complete as per standards of the following size. 35 cm Wide x 75 cm Deep (LT Cables)	36 37 38	angles 25x25x6mm (ISA) and 25x and supported using 25cm long 32 painted with two coats of Zinc Chr od195918/2018_2019 Cable Supports & Trenching- Sup cutting, welding, painting etc. as re od195919/2018_2019 Cable Supports & Trenching - Cha burnt bricks breadth wise above th surface etc.complete as per stance od195920/2018_2019	c6mmMS flats w 2x6mm MS flats w 2x6mm MS flat romate primer a 500.000 oply and providir equired for the 100.000 arges for making he cable, provid dards of the follo	vith and 2 at every nd two c ter A kg og 6mm cable tre kg g cable tre ding sand owing siz	20cm spac 1m spacin oats of ena 142.0 MS cheque nch coveri 121.0 enches in a d cushionin ze. 35 cm 1 640.0	ing between su g. The cable tr amel paint. 71000.00 ered plate of su ng. 12100.00 all type of soil in ng of 150mm re Wide x 100 cm 64000.00	uccessive of ays and su 142.00 iitable thick 121.00 noluding pro efilling & re Deep (HT 640.00	ross membe pports shall 71000.00 ness include 12100.00 oviding coun storing norn Cables) 64000.00			
	37	angles 25x25x6mm (ISA) and 25x and supported using 25cm long 32 painted with two coats of Zinc Chr od195918/2018_2019 Cable Supports & Trenching- Sup cutting, welding, painting etc. as re od195919/2018_2019 Cable Supports & Trenching - Cha burnt bricks breadth wise above th surface etc.complete as per stance od195920/2018_2019 Cable Supports & Trenching - Cha	AGMMMS flats w 2x6mm MS flats w 2x6mm MS flat romate primer a 500.000 oply and providin equired for the o 100.000 arges for making he cable, provid dards of the follo 100.000	vith and 2 at every nd two c ter A kg og 6mm cable tre kg g cable tre ding sand owing siz metre	20cm spac 1m spacin oats of ena 142.0 MS cheque nch coveri 121.0 enches in a d cushionin ze. 35 cm 1 640.0 enches in a	ing between su g. The cable tr amel paint. 71000.00 ered plate of su ng. 12100.00 all type of soil in mg of 150mm re Wide x 100 cm 64000.00 all type of soil in	142.00 itable thick 121.00 ncluding pro efilling & re Deep (HT 640.00	ross member pports shall 71000.00 mess include 12100.00 bviding count f Cables) 64000.00			
	37	angles 25x25x6mm (ISA) and 25x and supported using 25cm long 32 painted with two coats of Zinc Chr od195918/2018_2019 Cable Supports & Trenching- Sup cutting, welding, painting etc. as re od195919/2018_2019 Cable Supports & Trenching - Cha burnt bricks breadth wise above th surface etc.complete as per stance od195920/2018_2019 Cable Supports & Trenching - Cha burnt bricks breadth wise above th surface etc.complete as per stance	c6mmMS flats w 2x6mm MS flats w 2x6mm MS flat romate primer a 500.000 oply and providir equired for the 100.000 arges for making the cable, provid dards of the follo 100.000	vith and 2 at every nd two c ter A kg og 6mm cable tre kg g cable tre ding sand owing size metre g cable tre	20cm space 1m space 1m space 1m space 1m space 142.0 MS cheque nch coveri 121.0 enches in a d cushionin 2e. 35 cm 640.0 enches in a d cushionin ad cushionin	ing between su g. The cable tr amel paint. 71000.00 ered plate of su ng. 12100.00 all type of soil in mg of 150mm re Wide x 100 cm 64000.00 all type of soil in ng of 150mm re	uccessive of ays and su 142.00 itable thick 121.00 ncluding pro efilling & re Deep (HT 640.00 ncluding pro efilling & re	ross member pports shall 71000.00 mess includi 12100.00 bviding count storing norm Cables) 64000.00 bviding count storing norm			
	37	angles 25x25x6mm (ISA) and 25x and supported using 25cm long 32 painted with two coats of Zinc Chr od195918/2018_2019 Cable Supports & Trenching- Sup cutting, welding, painting etc. as re od195919/2018_2019 Cable Supports & Trenching - Cha burnt bricks breadth wise above th surface etc.complete as per stance od195920/2018_2019 Cable Supports & Trenching - Cha burnt bricks breadth wise above th surface etc.complete as per stance	c6mmMS flats w 2x6mm MS flats w 2x6mm MS flat romate primer a 500.000 oply and providir equired for the 100.000 arges for making the cable, provid dards of the follo 100.000	vith and 2 at every nd two c ter A kg og 6mm cable tre kg g cable tre ding sand owing size metre g cable tre	20cm space 1m space 1m space 1m space 1m space 142.0 MS cheque nch coveri 121.0 enches in a d cushionin 2e. 35 cm 640.0 enches in a d cushionin ad cushionin	ing between su g. The cable tr amel paint. 71000.00 ered plate of su ng. 12100.00 all type of soil in mg of 150mm re Wide x 100 cm 64000.00 all type of soil in ng of 150mm re	uccessive of ays and su 142.00 itable thick 121.00 ncluding pro efilling & re Deep (HT 640.00 ncluding pro efilling & re	ross member pports shall 71000.00 mess includi 12100.00 bviding coun storing norm Cables) 64000.00 bviding coun storing norm			
100.000 metre 594.0 59400.00 594.00 59400.00	37	angles 25x25x6mm (ISA) and 25x and supported using 25cm long 32 painted with two coats of Zinc Chr od195918/2018_2019 Cable Supports & Trenching- Sup cutting, welding, painting etc. as re od195919/2018_2019 Cable Supports & Trenching - Cha burnt bricks breadth wise above th surface etc.complete as per stance od195920/2018_2019 Cable Supports & Trenching - Cha burnt bricks breadth wise above th surface etc.complete as per stance	c6mmMS flats w 2x6mm MS flats w 2x6mm MS flat romate primer a 500.000 oply and providir equired for the 100.000 arges for making the cable, provid dards of the follo 100.000	vith and 2 at every nd two c ter A kg og 6mm cable tre kg g cable tre ding sand owing size metre g cable tre	20cm spac 1m spacin oats of ena 142.0 MS cheque nch coveri 121.0 enches in a d cushionin ze. 35 cm 640.0 enches in a d cushionin	ing between su g. The cable tr amel paint. 71000.00 ered plate of su ng. 12100.00 all type of soil in mg of 150mm re Wide x 100 cm 64000.00 all type of soil in ng of 150mm re	uccessive of ays and su 142.00 itable thick 121.00 ncluding pro efilling & re Deep (HT 640.00 ncluding pro efilling & re	ross member pports shall 71000.00 mess includi 12100.00 bviding count storing norm Cables) 64000.00 bviding count storing norm			



	Cable Sup	/2018_2019 oports & Trenching - Supply r / welded to 35x35x6mm angl				•		•
			50.000	No	516.0	25800.00	516.00	25800.00
40	Cable Sup	/2018_2019 oports & Trenching - Supply r / welded to 35x35x6mm angl				•		•
	1		25.000	No	417.0	10425.00	417.00	10425.00
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
25		oply, erection, testing and cor compound /2018 2019		-			ed works at	Alady plant
	watering p quantity o mm broke the expos	nd providing plate earthing a bipe fixed to the earth plate f charcoal including construct n stone (10 cm thick), brick ed surface of PCC bed with x 450 mm) but excluding tes	with 25 x ction of ins work in cer cement mo	3mm GI pection c ment mor ortar 1:4,	clamps, G hamber wit tar 1:6, pla 12 mm thic	I funnel with w th a bed concre stering the surf k, (the finished	eld mesh, ete of 1:4:8 ace of bric inside dime	filling required PCC using 40 k masonry and ension shall be
	1	Ker	8.0007	ateet A	11091.0	V 88728.00	11091.00	88728.00
2	Supply an weld mesl	/2018_2019 d providing pipe earthing as n, filling required quantity of	charcoal &	salt inclu	iding const	ruction of inspe	ection cham	
	the surfac finished in	of 1:4:8 PCC using 40 mm b e of brick masonry and the e uside dimension shall be 300 and covering at the top.	exposed su	urface of I	PCC bed w	ith cement mo	tar 1:4, 12	mm thick, (the
	the surfac finished in	e of brick masonry and the e side dimension shall be 300	exposed su	urface of I	PCC bed w	ith cement mo	tar 1:4, 12	mm thick, (the
3	the surfac finished in the plate, od196110 Supply &	e of brick masonry and the e side dimension shall be 300	f Earth St	rip for ea	PCC bed w ut excludin 2952.0	ith cement mor g test joint, ear 14760.00 rconnection, te	tar 1:4, 12 th continui 2952.00 ermination	mm thick, (the ty conductor to 14760.00 and leads, for
3	the surfac finished in the plate, od196110 Supply &	e of brick masonry and the e iside dimension shall be 300 and covering at the top. /2018_2019 laying the following sizes o	f Earth St	rip for ea	PCC bed w ut excludin 2952.0	ith cement mor g test joint, ear 14760.00 rconnection, te	tar 1:4, 12 th continui 2952.00 ermination	mm thick, (the ty conductor to 14760.00 and leads, for
3	the surfac finished in the plate, od196110 Supply & continous od196111 Supply &	e of brick masonry and the e iside dimension shall be 300 and covering at the top. /2018_2019 laying the following sizes o	f Earth St 300.000	rip for ea rip for ea rip for ea	PCC bed w ut excludin 2952.0 arthing inte s etc. com 1507.0	ith cement mor g test joint, ear 14760.00 rconnection, te plete. 25 x 6 m 452100.00 rconnection, te	tar 1:4, 12 th continui 2952.00 ermination m Copper 1507.00 ermination	mm thick, (the ty conductor to 14760.00 and leads, for Strip 452100.00 and leads, for



300.000 metre 199.0 59700.00 199.00 59700.00 6 od196113/2018_2019 Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving eart connection as required. No. 10 SWG Copper Conductor 600.000 metre 113.0 67800.00 113.00 67800.00 Si No Spec Description Quantity Unit DSOR Rate TS Amount LMR Amount 26 2(a)- Supply, erection, testing and commissioning of 400 KVA Transformer and allied works at Alady plant compound-(6) SUBSTATION EQUIPMENTS & MISC 1 Supply and providing 6 mm thick & 1 m wide electrical grade chequered type rubber mat to withstand 3.3 K dielectric strength conforming to 15 5429/ 1969. 2 od196124/2018_2019 Supply and providing 12 mm thick & 1 m wide electrical grade chequered type rubber mat to withstand 15 K dielectric strength conforming to 15 5429/ 1969 in front of the HT Breaker Panel. 1379.00 2758.00 3 od196125/2018_2019 Supply and providing 5 Kg. Dry Chemical Powder type Fire Extinguisher with hose and clamps including fixin it to wall as required. 2.000 set 238.00 4766.00 288.00 4766.00 4 od196126/2018_2019 Supply and providing 9 Litre capacity GI Fire Bucket painted in post office red with primer coat of red oxid and writem with white paint 'FIRE' mounted on MS angle frame wor	5	Supply ar	2/2018_2019 nd drawing bare earthing conc n as required. No. 16 SWG C			ving sizes a	along with wiring	g/ cables a	nd giving earth
Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving eart connection as required. No. 10 SWG Copper Conductor 81N0 Spec 600.000 metre 113.0 67800.00 113.00 67800.00 SI No Spec Description Quantity Unit DSOR Rate TS Amount LMR Rate LMR Amount 26 2(a)- Supply, erection, testing and commissioning of 400 KVA Transformer and allied works at Alady plant compound-(6) SUBSTATION EQUIPMENTS & MISC 0d196123/2018_2019 3upply and providing 6 mm thick & 1 m wide electrical grade chequered type rubber mat to withstand 3.3 K dielectric strength conforming to IS 5429/1969. 5.000 sqm 773.0 3865.00 773.00 3865.00 2 od196123/2018_2019 Supply and providing 12 mm thick & 1 m wide electrical grade chequered type rubber mat to withstand 15 K dielectric strength conforming to IS 5429/1969 in front of the HT Breaker Panel. Kerala Water Authority 2 0d196125/2018_2019 2000 sqm 1379.0 2758.00 1379.0 2758.00 3 od196126/2018_2019 Supply and providing 5 Kg. Dry Chemical Powder type Fire Extinguisher with hose and clamps including fixin it to wall as required. 2.000 set 2383.0 4766.00 24 0d196126/2018_2019 Supp				300.000	metre	199.0	59700.00	199.00	59700.00
Spec Description Quantity Unit DSOR Rate TS Amount LMR Rate LMR Rate LMR Amount 26 2(a)- Supply, erection, testing and commissioning of 400 KVA Transformer and allied works at Alady plant compound-(6) SUBSTATION EQUIPMENTS & MISC 0d196123/2018_2019 Supply and providing 6 mm thick & 1 m wide electrical grade chequered type rubber mat to withstand 3.3 K dielectric strength conforming to IS 5429/ 1969. 2 od196124/2018_2019 Supply and providing 12 mm thick & 1 m wide electrical grade chequered type rubber mat to withstand 15 K dielectric strength conforming to IS 5429/ 1969 in front of the HT Breaker Panel. Kerala Water Authority 2000 sqm 1379.0 2758.00 1379.00 2758.00 3 od196125/2018_2019 2000 sqm 1379.0 2758.00 1379.00 2758.00 3 od196125/2018_2019 2000 sqm 1379.0 2758.00 3 od196125/2018_2019 2.000 set 2383.0 4766.00 2383.00 4766.00 4 od196126/2018_2019 Supply and providing 9 Litre capacity GI Fire Bucket painted in post office red with primer coat of red oxid and written with white paint 'FIRE' mounted on MS angle frame work/ wall bracket filled with fire same painting the bracket/ floor stand including making good the damages, colour washing etc. as required 4.000 set<	6	Supply ar	nd drawing bare earthing conc			ving sizes a	along with wiring	g/ cables a	nd giving earth
26 2(a)- Supply, erection, testing and commissioning of 400 KVA Transformer and allied works at Alady plant compound-(6) SUBSTATION EQUIPMENTS & MISC 1 od196123/2018_2019 Supply and providing 6 mm thick & 1 m wide electrical grade chequered type rubber mat to withstand 3.3 K dielectric strength conforming to IS 5429/ 1969. 2 od196124/2018_2019 Supply and providing 12 mm thick & 1 m wide electrical grade chequered type rubber mat to withstand 15 K dielectric strength conforming to IS 5429/ 1969 in front of the HT Breaker Panel. 2 od196124/2018_2019 Supply and providing 12 mm thick & 1 m wide electrical grade chequered type rubber mat to withstand 15 K dielectric strength conforming to IS 5429/ 1969 in front of the HT Breaker Panel. Kerala Water Authority 2 od196125/2018_2019 Supply and providing 5 Kg. Dry Chemical Powder type Fire Extinguisher with hose and clamps including fixin it to wall as required. 2 000 4 od196126/2018_2019 Supply and providing 9 Litre capacity GI Fire Bucket painted in post office red with primer coat of red oxid and written with white paint 'FIRE' mounted on MS angle frame work/ wall bracket filled with fine same painting the bracket/ floor stand including making good the damages, colour washing etc. as required 4 000 set 638.0 2552.00 638.00 2552.00 5 od196127/2018_2019 Suppl				600.000	metre	113.0	67800.00	113.00	67800.00
compound-(6) SUBSTATION EQUIPMENTS & MISC 1 od196123/2018_2019 Supply and providing 6 mm thick & 1 m wide electrical grade chequered type rubber mat to withstand 3.3 K dielectric strength conforming to IS 5429/ 1969. 2 od196124/2018_2019 Supply and providing 12 mm thick & 1 m wide electrical grade chequered type rubber mat to withstand 15 K dielectric strength conforming to IS 5429/ 1969 in front of the HT Breaker Panel. 2 od196124/2018_2019 Supply and providing 12 mm thick & 1 m wide electrical grade chequered type rubber mat to withstand 15 K dielectric strength conforming to IS 5429/ 1969 in front of the HT Breaker Panel. Kerala Water 2.000 sqm 3 od196125/2018_2019 Supply and providing 5 Kg. Dry Chemical Powder type Fire Extinguisher with hose and clamps including fixin it to wall as required. 4 od196126/2018_2019 Supply and providing 9 Litre capacity GI Fire Bucket painted in post office red with primer coat of red oxid and written with white paint 'FIRE' mounted on MS angle frame work/ wall bracket filled with fine same painting the bracket/ floor stand including making good the damages, colour washing etc. as required 4.000 set 638.0 2552.00 638.00 2552.00 5 od196127/2018_2019 Supply and providing First Aid Chart duly framed and placed in a conspicuous location for clear vision. </td <td>SI No</td> <td>Spec</td> <td>Description</td> <td>Quantity</td> <td>Unit</td> <td>DSOR Rate</td> <td>TS Amount</td> <td>LMR Rate</td> <td>LMR Amount</td>	SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
2 od196124/2018_2019 Supply and providing 12 mm thick & 1 m wide electrical grade chequered type rubber mat to withstand 15 K dielectric strength conforming to IS 5429/ 1969 in front of the HT Breaker Panel. 2 0.00 3 od196125/2018_2019 Supply and providing 5 Kg. Dry Chemical Powder type Fire Extinguisher with hose and clamps including fixin it to wall as required. 2 0.00 4 0d196126/2018_2019 Supply and providing 5 Kg. Dry Chemical Powder type Fire Extinguisher with hose and clamps including fixin it to wall as required. 2.000 set 2383.0 4766.00 2383.00 4766.00 4 0d196126/2018_2019 Supply and providing 9 Litre capacity GI Fire Bucket painted in post office red with primer coat of red oxid and written with white paint 'FIRE' mounted on MS angle frame work/ wall bracket filled with fine same painting the bracket/ floor stand including making good the damages, colour washing etc. as required 4 0.00 set 638.0 2552.00 638.00 2552.00 5 0d196127/2018_2019 Supply and providing First Aid Chart duly framed and placed in a conspicuous location for clear vision.		od196123 Supply ar	compound-(6) 2018_2019 ad providing 6 mm thick & 1 m	SUBSTAT	TION EQI	JIPMENTS	S & MISC		
Supply and providing 12 mm thick & 1 m wide electrical grade chequered type rubber mat to withstand 15 K dielectric strength conforming to IS 5429/ 1969 in front of the HT Breaker Panel. 2:000 sqm 1379.0 2758.00 1379.00 2758.00 3 od196125/2018_2019 sqm 1379.0 2758.00 1379.00 2758.00 3 od196125/2018_2019 supply and providing 5 Kg. Dry Chemical Powder type Fire Extinguisher with hose and clamps including fixin it to wall as required. 2.000 set 2383.0 4766.00 2383.00 4766.00 4 od196126/2018_2019 Supply and providing 9 Litre capacity GI Fire Bucket painted in post office red with primer coat of red oxid and written with white paint 'FIRE' mounted on MS angle frame work/ wall bracket filled with fire same painting the bracket/ floor stand including making good the damages, colour washing etc. as required 4.000 set 638.0 2552.00 638.00 2552.00 5 od196127/2018_2019 Supply and providing First Aid Chart duly framed and placed in a conspicuous location for clear vision.			15	5.000	sqm	773.0	3865.00	773.00	3865.00
3 od196125/2018_2019 Supply and providing 5 Kg. Dry Chemical Powder type Fire Extinguisher with hose and clamps including fixin it to wall as required. 2.000 set 2383.0 4766.00 2383.00 4766.00 4 od196126/2018_2019 supply and providing 9 Litre capacity GI Fire Bucket painted in post office red with primer coat of red oxid and written with white paint 'FIRE' mounted on MS angle frame work/ wall bracket filled with fine same painting the bracket/ floor stand including making good the damages, colour washing etc. as required 4.000 set 638.0 2552.00 638.00 2552.00 5 od196127/2018_2019 supply and providing First Aid Chart duly framed and placed in a conspicuous location for clear vision.	2	Supply ar	nd providing 12 mm thick & 1 n strength conforming to IS 542	29/ 1969 in	front of	he HT Bre	aker Panel.	er mat to w	ithstand 15 KV
Supply and providing 5 Kg. Dry Chemical Powder type Fire Extinguisher with hose and clamps including fixin it to wall as required. 2.000 set 2383.0 4766.00 2383.00 4766.00 4 od196126/2018_2019 supply and providing 9 Litre capacity GI Fire Bucket painted in post office red with primer coat of red oxid and written with white paint 'FIRE' mounted on MS angle frame work/ wall bracket filled with fine sand painting the bracket/ floor stand including making good the damages, colour washing etc. as required 4.000 set 638.0 2552.00 638.00 2552.00 5 od196127/2018_2019 supply and providing First Aid Chart duly framed and placed in a conspicuous location for clear vision. Image: Constant of the constent of the constant of the constant of the c				2.000	sqm	1379.0	2758.00	1379.00	2758.00
 4 od196126/2018_2019 Supply and providing 9 Litre capacity GI Fire Bucket painted in post office red with primer coat of red oxid and written with white paint 'FIRE' mounted on MS angle frame work/ wall bracket filled with fine same painting the bracket/ floor stand including making good the damages, colour washing etc. as required 4.000 set 638.0 2552.00 638.00 2552.00 5 od196127/2018_2019 Supply and providing First Aid Chart duly framed and placed in a conspicuous location for clear vision. 	3	Supply ar	d providing 5 Kg. Dry Chemic	al Powder	r type Fire	Extinguis	her with hose a	nd clamps	including fixing
Supply and providing 9 Litre capacity GI Fire Bucket painted in post office red with primer coat of red oxid and written with white paint 'FIRE' mounted on MS angle frame work/ wall bracket filled with fine same painting the bracket/ floor stand including making good the damages, colour washing etc. as required 4.000 set 638.0 2552.00 638.00 2552.00 5 od196127/2018_2019 Supply and providing First Aid Chart duly framed and placed in a conspicuous location for clear vision.				2.000	set	2383.0	4766.00	2383.00	4766.00
5 od196127/2018_2019 Supply and providing First Aid Chart duly framed and placed in a conspicuous location for clear vision.	4	Supply ar and writte	nd providing 9 Litre capacity (en with white paint 'FIRE' m	ounted or	n MS ang	gle frame	work/ wall brad	ket filled	with fine sand,
Supply and providing First Aid Chart duly framed and placed in a conspicuous location for clear vision.				4.000	set	638.0	2552.00	638.00	2552.00
1.000 set 247.0 247.00 247.00 247.00	5			ly framed	and place	ed in a cons	spicuous locatic	on for clear	vision.
				1.000	set	247.0	247.00	247.00	247.00



	od196128/2018_2019 Supply and providing Laminated Ele for clear vision.	ectrical Sche	matic dia	gram frame	ed and placed	in a conspi	cuous locatio
		1.000	set	226.0	226.00	226.00	226.00
7	od196129/2018_2019 Supply & providing Aluminium anodi English and Malayalam) and conv Engineer in Charge	•					
		10.000	Nos	267.0	2670.00	267.00	2670.00
8	od202018/2018_2019 SCHEME APPROVAL & POWER A Voltage drop calculations, Earthing of MV additions recently made and of sanction orders for the electrical in	design & faul btaining app	t level ca roval, arr	lculations t anging ins	o the Electrical pection for en	Inspectora tire installa	te including a tion, obtainir
	R	1.000	L.S	20000.0	20000.00	20000.00	20000.00
	KSEB for obtaining sanction for pow submission and execution of HT ac latest additions.		the second se			•	<i>,</i> .
			T				
	P	1.000	L.S	15000.0	15000.00	15000.00	15000.00
SI No	Spec Description	1.000 Quantity	L.S Unit	15000.0 DSOR Rate	15000.00 TS Amount	15000.00 LMR Rate	
	Spec Description 2(b)- Supply, erection, testing and con water pump house co	Quantity	Unit of 500 K\	DSOR Rate	TS Amount	LMR Rate	LMR Amount
<u>SI No</u> 27 1	2(b)- Supply, erection, testing and co	Quantity mmissioning ompound- (1)- ving length in	Unit of 500 K\ - 11 KV s brick bal	DSOR Rate /A Transfor ubstation a last and ra	TS Amount mer and allied nd HT equipme mming the four	LMR Rate works at Th ents ndation, fini	LMR Amount nonithady ray
27	2(b)- Supply, erection, testing and con water pump house co od194695/2018_2019 Erection of RCC/ PCC pole of follow	Quantity mmissioning ompound- (1)- ving length in	Unit of 500 K\ - 11 KV s brick bal	DSOR Rate /A Transfor ubstation a last and ra	TS Amount mer and allied nd HT equipme mming the four	LMR Rate works at Th ents ndation, fini	nonithady rav
27	2(b)- Supply, erection, testing and con water pump house co od194695/2018_2019 Erection of RCC/ PCC pole of follow	Quantity mmissioning ompound- (1) ving length in over on top with 2.000 cross bracing t of 50 mm X eight, completed	Unit of 500 KV - 11 KV s brick bal th includi Nos frame w 50 mm 2 te with 50	DSOR Rate /A Transfor ubstation a last and rating excavat 4957.0 ork for 11 X 6 mm an 0 mm X 6n	TS Amount rmer and allied nd HT equipme mming the four tion and refillin 9914.00 KV over head gle iron to forr nm M.S. flat iro	LMR Rate works at Thents Indation, fini g etc. as re 4957.00 line double n a rectang on clamps,	LMR Amount nonithady ra- shing with 1 quired. 9914.00 pole structu le of minimu bolts and nu

	od194697/2018_2019 Erection of double pole 3 wire cross arr	n for 11 K	V/22 KV/3	33 KV over	head lines as r	equired.	
		3.000	Nos	967.0	2901.00	967.00	2901.00
4	od194698/2018_2019 Supplying and erection of 11 kV pin in required.	sulator cc	omplete w	vith large st	teel head G.I. _I	oin, nuts, w	ashers etc. a
		1.000	set	349.0	349.00	349.00	349.00
5	od194699/2018_2019 Supplying and erection of three piece overhead lines with rated voltage 9 kV galvanised clamping arrangement, G.I.	(rms) with	a nomina	al discharge	e current rating		
		1.000	set	3601.0	3601.00	3601.00	3601.00
	Voltmeter (0 - 11kV) - 3 Nos LED Pilot Aux contacts - 1 Set 230V AC Shunt Space Heater Element with Thermost Metering Chamber PT - 100 VA, 11kV/ mounting 3 phase, 4wire, HT CT/PT o wiring and test terminal block, site glass of voltage circuit including power supp	Trip Coil - at & wiring 110V, CL perated, t s etc 1 s	- 1 No Ali g - 1 Nos 0.2S - 1 bi-directio et Voltag er at refe	uminium B Inspection No CT - */5 onal TOD m e Circuit: T	usbar - 1 Set S n Lamp LED w GA, 15VA, CL 0 neter with accu he active & app	Seal off Bus ith switch 8 .2S - 3 Nos racy class parent powe	shings - 3 Nc wiring - 1 se Provisions fo 0.2S includin
	shall not exceed 1.0 Watt & 4.0 VA per basic current, reference frequency & re shall be inclusive of necessary cont completely with necessary controls as Cable end box for receiving incoming Supply & Labour	ference te rol wiring specified	emperatur , compo till the co	e shall not nents work onnection p	exceed 1.0 VA king on LT su point for feeding	/phase.(Th pply should g LT Supply	e & frequenc urrent circuit a ne Quoted rate d be prewire y from outside
	basic current, reference frequency & re shall be inclusive of necessary cont completely with necessary controls as Cable end box for receiving incoming	ference te rol wiring specified	emperatur , compo till the co	e shall not nents work onnection p	exceed 1.0 VA king on LT su point for feeding	/phase.(Th pply should g LT Supply	e & frequenc urrent circuit a ne Quoted rat d be prewire y from outside



		1.000	set	43954.0	43954.00	43954.00	43954.00
8	od201139/2018_2019 HT Equipment Pinth, Substation Y	ard Fencing &	Levelling	- Providing	, fabricating ar	nd fixing 2m	high chainlir
	fencing over 4mm thick barbed w	-	-	-	-	-	-
	ISMC 75 at 2400mm interval, Earth	ning as per KS	EI/KSEB	standards s	shall be done a	round the p	eriphery of t
	fencing. The MS framework for cha	ainlink fencing	shall be H	lot Dip Gal	vanised. The ra	ate shall be	inclusive of
	materials, labour, lead, lift etc inc	luding escalat	ion works	and fabric	ation and ass	embly work	s including
	nuts, bolts and other miscallaneo	us items etc c	omplete a	as per drav	ving and as di	rected by th	ne Engineer
	Charge.						
		20.000	metre	1298.0	25960.00	1298.00	25960.00
9	od201140/2018_2019						
U	HT Equipment Pinth, Substation	Yard Fencing	& Levelli	na - Supply	ving and filling	the substa	ation vard w
	40mm size blue jelly of 150mm t			• • • •			•
	complete						
	6.1	5.000	0.100	3017.0	15085.00	3017.00	15095 00
	(·)	5.000	cum	3017.0	15065.00	3017.00	15085.00
10	od201141/2018_2019						
	HT Equipment Pinth, Substation Ya	ard Fencing &	Levelling	- Supply &	erection of Rai	ndom rubble	e masonry w
	hard stone in foundation and plint						
	sand : 12 graded stone aggregate	20 mm nomina	al size) u	oto plinth le	vel with : Cem	ent mortar '	1:6 (1 ceme
		· · · · · · · · · · · · · · · · · · ·	ator A	uthorit	X 7		
	6 coarse sand).	erala W					
	6 coarse sand).	Kerala Wa					
	6 coarse sand).	erala Wa		6143.0	12286.00	6143.00	12286.00
11						6143.00	12286.00
11	od201142/2018_2019	2.000	cum	6143.0	12286.00	11	
11	od201142/2018_2019 500 KVA Transformer - Supply, ins	2.000 stallation, testin	cum	6143.0	12286.00	ber 500 kVA	A, DYn11, 3I
11	od201142/2018_2019 500 KVA Transformer - Supply, ins 50Hz, 11/3.3 kV,ONAN cooled, co	2.000 stallation, testin	cum ng and co putdoor d	6143.0 ommissionir istribution t	12286.00 ng of one numb ransformer wit	ber 500 kVA	A, DYn11, 3I from +5% t
11	od201142/2018_2019 500 KVA Transformer - Supply, ins 50Hz, 11/3.3 kV,ONAN cooled, co 10% in steps of 2.5% with OFTC	2.000 stallation, testin opper wound c c. The HT side	cum ng and co putdoor d & LT sid	6143.0 ommissionir istribution t de shall ha	12286.00 ng of one numb ransformer wit ve cable end	ber 500 kVA h tappings box for XLF	A, DYn11, 3I from +5% t PE cable. T
11	od201142/2018_2019 500 KVA Transformer - Supply, ins 50Hz, 11/3.3 kV,ONAN cooled, co 10% in steps of 2.5% with OFTC transformer shall have suitable en	2.000 stallation, testin opper wound o c. The HT side closure for The	cum ng and co putdoor d & LT side HT side	6143.0 ommissionir istribution t de shall ha & LT side.	12286.00 ng of one numb ransformer wit ve cable end The transform	ber 500 kVA th tappings box for XLF	A, DYn11, 3F from +5% to PE cable. T complete w
11	od201142/2018_2019 500 KVA Transformer - Supply, ins 50Hz, 11/3.3 kV,ONAN cooled, co 10% in steps of 2.5% with OFTC transformer shall have suitable en all standard accessories and fitting	2.000 stallation, testin opper wound o c. The HT side closure for The gs & conform to	cum ng and cc putdoor d & LT side HT side D IS:2026	6143.0 ommissionir istribution t de shall ha e & LT side. . The rate s	12286.00 ng of one numb ransformer wit ve cable end The transform hall be inclusiv	ber 500 kVA th tappings box for XLF her shall be ve of all mat	A, DYn11, 3F from +5% tr PE cable. T complete w terials, lead,
11	od201142/2018_2019 500 KVA Transformer - Supply, ins 50Hz, 11/3.3 kV,ONAN cooled, co 10% in steps of 2.5% with OFTC transformer shall have suitable en	2.000 stallation, testin opper wound of the HT side closure for The gs & conform to for mounting t	cum ng and co putdoor d & LT side HT side D IS:2026	6143.0 ommissionir istribution t de shall ha e & LT side. . The rate s	12286.00 ng of one numb ransformer wit ve cable end The transform hall be inclusiv	ber 500 kVA th tappings box for XLF her shall be ve of all mat	A, DYn11, 3I from +5% t PE cable. T complete w terials, lead,
11	od201142/2018_2019 500 KVA Transformer - Supply, ins 50Hz, 11/3.3 kV,ONAN cooled, co 10% in steps of 2.5% with OFTC transformer shall have suitable en all standard accessories and fitting first fill of oil, necessary civil works	2.000 stallation, testin opper wound of the HT side closure for The gs & conform to for mounting t	cum ng and co putdoor d & LT side HT side D IS:2026	6143.0 ommissionir istribution t de shall ha e & LT side. . The rate s	12286.00 ng of one numb ransformer wit ve cable end The transform hall be inclusiv	ber 500 kVA th tappings box for XLF her shall be ve of all mat	A, DYn11, 3l from +5% t PE cable. T complete w terials, lead,
11	od201142/2018_2019 500 KVA Transformer - Supply, ins 50Hz, 11/3.3 kV,ONAN cooled, co 10% in steps of 2.5% with OFTC transformer shall have suitable en all standard accessories and fitting first fill of oil, necessary civil works	2.000 stallation, testin opper wound of the HT side closure for The gs & conform to for mounting t	cum ng and co putdoor d & LT side HT side D IS:2026	6143.0 ommissionir istribution t de shall ha e & LT side. . The rate s	12286.00 ng of one numb ransformer wit ve cable end The transform hall be inclusiv	ber 500 kVA th tappings box for XLF her shall be ve of all mat on complete	A, DYn11, 3F from +5% tr PE cable. T complete w terials, lead,
	od201142/2018_2019 500 KVA Transformer - Supply, ins 50Hz, 11/3.3 kV,ONAN cooled, co 10% in steps of 2.5% with OFTC transformer shall have suitable en all standard accessories and fitting first fill of oil, necessary civil works	2.000 stallation, testin opper wound of the HT side closure for The gs & conform to for mounting t	cum ng and co putdoor d & LT side HT side D IS:2026	6143.0 ommissionir istribution t de shall ha e & LT side. . The rate s	12286.00 ng of one numb ransformer wit ve cable end The transform hall be inclusiv	ber 500 kVA th tappings box for XLF her shall be ve of all mat	A, DYn11, 3 from +5% t PE cable. T complete w terials, lead,



12	Supply/er ,distributio KV panne transforme A outgoing	/2020_2021 rection/testing con on transformer Inde el to transformer a er including ,erection g MCCB with isola ectratecomplete-a	oor (or out o and LT cab on ,testing a tion,erathir	door),with le to LT and comm ng , with n	HT/LT c panel,ca hissioning neters ar	able entry , ble termina g of LT panr nd indicating	with suitable H tion,foundatio nel with 100A in	IT and LT c n/structure ncomer MC	ables from 3.3 /enclosure for CB, 3 NOS 63
	T			1.000	No	350000.0	350000.00	350000.0 0	350000.00
13		/2018_2019 rounding Resistor -	Supply & F	Providing	50A,3.3k	V 40ohm 30	sec NGR - Su	pply	
	1			1.000	No	155766.0	155766.00	155766.0 0	155766.00
14		/2018_2019 rounding Resistor -	Supply & F	Providing	50A,3.3k	V 40ohm 30	sec NGR - Lal	oour	
	1		ale -	1.000	No	656.0	656.00	656.00	656.00
15	NEUTRAL	/2018_2019 - CT - Supply & P giving connections	-					CT in a suita	able enclosure
			D	1.000	No	4327.0	4327.00	4327.00	4327.00
16	od201146	/2018_2019					Ľ		
	NEUTRAL	CT - Supply & P	roviding 5P	10 Prote	ction Cla	ss 20/5A, 1	5VA Neutral C	T in a suita	able enclosure
	including	giving connections	s to Transfo	ormer Neu	utral etc.	complete - I	_abour		
	·			1.000	No	625.0	625.00	625.00	625.00
SI No	Spec	Descriptior	1	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
28	2(b)- Suppl	y, erection, testing water pump		-			mer and allied ACCESSORI		nonithady raw



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od201161/2018_2019

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SI No

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PCC PANEL -Design ,approvel, Supply, fabrication, erection, testing and commissioning of 3.3kv cubicle type fully compartmentalized, dust tight, vermin proof, water proof 3.3 kv, VCB panel set 200Amp or suitable rating - Main 3.3.KV Panel falling to IP54 category fabricated out of 16 SWG CRCA Sheet Steel painted as per standards with Alumimium Busbars of suitable size, earth bus of adequate capacity, double earth connection to all switches, internal rigid connection etc. including suitable chambers, front open, top cable entry with water proof shrouding, free standing panel consisting of the following as per standards (All switches shall confirm to conforming to IEC 60947-2 standards). Incommer - 200A FP Microprocessor based VCB - suitable MVA based on fault level-- 1 Nos. Restricted Earth Fault Relay - best conductivity Aluminium busbar with SMC supports, heat shrinkable sleeves etc. as per ISS - 1set RYB indicators (LED Pilot type) with 2A Control MCB and toggle switches - 4 Set Multifunction Digital Panel meter to read V, A, F, PF, kW, kVA, kVAR, kWh, kVAh, kVARh Class 1.0 - 1 Set 200/5A CL 1.0, 15VA Metering CTs -one VCB incomer 200 A or suitable size-3 Sets Outgoings: 200A, VCB - 1 Nos. 100/50A VCB out going- .with isolation facility - Surge Protection Pluggable type surge arrester with potential free contact, thermal disconnector & provision for inbuilt common remote indication for defective arresters to connect between Line and Neutral and one number Spark Gap type arrester to connect between Neutral and Earth of following ratings including base element & pluggable arresters. Nominal voltage 3.3KV, 50Hz, Nominal Discharge current 30 kA (8/20 sec) for Line to Neutral & 50 kA (8/20 sec) for Neutral to Earth, Maximum Discharge Current Imax 50 kA (8/20 sec) -1Set Supports The panel shall be supported to ground using framework fabricated out of MS Flats / Angles etc. painted with two coats of Zinc Chromate primer and two coats of enamel paint. The framework shall be firmly supported to ground using suitable cement concrete plinth. The Panel Board shall be provided with 25 x 3mm copper earth bus for the full length. Painting letters / identifications for the incoming and outgoing switches, cable, fuse sizes, etc., in white enamel paint. The board shall be fabricated in such a way that future extension be possible. Supply & Labour , suitable battery and charger for the pannel, -complete as per CEA and kerala State Electrical Inspectrate relevant statutes, approvel from inspectrate ,2.5 sq mm copper cable shall be used for all control ciruits-

		1.000	set	1806133.	1806133.00	1806133. 00	1806133.00
				0			
C	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount

29 2(b)- Supply, erection, testing and commissioning of 500 KVA Transformer and allied works at Thonithady raw water pump house compound- (3)- DISTRIBUTION BOARDS, SWITCHGEAR & ACCESSORIES

od194998/2018_2019

Spec

Supply, installation, testing & commissioning of best quality sheet steel, phosphatised and painted, dust and vermin proof enclosure (IP43) Vertical TPN Double door DB including copper bus bar, neutral link, earth bus and DIN rail suitable for fixing RCCB + Isolator (8 module)as incommer and SP/TP MCB as outgoings etc. on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall, making good the damages, colour washing, dressing the DB including termination etc. as required. (Including closing vaccant slots using Dummy) - 12 Way

	1.000	No	11136.0	11136.00	11136.00	11136.00
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2	Junction E	2018_2019 I providing the follo Boxes etc. includir etc. complete - 63	ng giving proper	terminatio				-
			1.000	No	6640.0	6640.00	6640.00	6640.00
3	Junction E	2018_2019 I providing the follo Boxes etc. includir etc. complete. 63	ng giving proper	terminatio				-
			1.000	No	1050.0	1050.00	1050.00	1050.00
		Boxes etc. includir etc. complete - 6			181.0	6516.00	181.00	6516.00
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
30	2(b)- Supply	v, erection, testing a				mer and allied & ACCESSOR		nonithady raw
1	screened v conducting tape, galva		Kerala W & laying 11KV st conducting compo- bination with copp armoured, and or	randed co ound XLPI er tape (0 verall PVC	uthorit ompact circ insulated, .3 kA for 1 s sheathed c	cular aluminiu , insulation scr sec.), cores lai cable of the foll	m conducto eened with d up, inner owing sizes	extruded sen sheath of PV
1	HT Power screened v conducting tape, galva	2018_2019 Cables - Supply vith extruded semi compound in coml nized steel flat strip	Kerala W & laying 11KV st conducting compo- bination with copp armoured, and or	randed co ound XLP er tape (0 verall PVC with lates	uthorit ompact circ insulated, .3 kA for 1 s sheathed c	cular aluminiu , insulation scr sec.), cores lai cable of the foll	m conducto eened with d up, inner owing sizes	extruded sen sheath of PV
2	HT Power screened v conducting tape, galva cable trend od201351/ HT Power screened v conducting tape, galva	2018_2019 Cables - Supply over vith extruded semi compound in coml nized steel flat strip h conforming to IS:	Kerala W & laying 11KV st conducting compo- bination with copp armoured, and or 7098 part II 1985 60.000 & laying 11KV st conducting compo- bination with copp armoured, and or	randed co ound XLP er tape (0 verall PVC with lates metre randed co ound XLP er tape (0 verall PVC	uthorit mpact circ insulated, 3 kA for 1 s sheathed of amendmen 2318.0 2318.0 mpact circ insulated, 3 kA for 1 s sheathed of	cular aluminiu , insulation scr sec.), cores lai cable of the foll nts. 3C x 150 \$ 139080.00 cular aluminiu , insulation scr sec.), cores lai cable of the foll	m conducto eened with d up, inner owing sizes Gqm 2318.00 m conducto eened with d up, inner owing sizes	extruded ser sheath of PV in the existin 139080.00 or, conductor extruded ser sheath of PV

3	od201352/2018_2019 HT Power Cables - Supply & laying screened with extruded semi conductir conducting compound in combination v tape, galvanized steel flat strip armoure cable trench conforming to IS: 7098 par	ng compo vith coppe d, and ov	und XLPE er tape (0. erall PVC	insulated 3 kA for 1 sheathed o	, insulation scro sec.), cores laid cable of the foll	eened with d up, inner owing sizes	extruded semi sheath of PVC
		20.000	metre	628.0	12560.00	628.00	12560.00
4	od201353/2018_2019 HT Cable Terminations - Supplying and including lugs and other jointing mate grade as required. 3C x 150 Sqmm	-					
		4.000	set	10002.0	40008.00	10002.00	40008.00
5	od201354/2018_2019 HT Cable Terminations - Supplying and including lugs and other jointing mate grade as required. 3C x 50 Sqmm						
	400	8.000	set	7664.0	61312.00	7664.00	61312.00
6	od201355/2018_2019 HT Cable Terminations - Supplying and including lugs and other jointing mate grade as required. 1C x 50 Sqmm						
		1.000	set	7664.0	7664.00	7664.00	7664.00
7	od201356/2018_2019 HT Cable Terminations - Supplying an including lugs and other jointing materi grade as required. 3C x 150 Sqmm	-					, ,
		2.000	set	12367.0	24734.00	12367.00	24734.00
8	od201357/2018_2019 HT Cable Terminations - Supplying an including lugs and other jointing materi grade as required. 1C x 50 Sqmm	-					
		1.000	set	14660.0	14660.00	14660.00	14660.00



9	od201358/2018_2019 LT Power Cables - Supply & layi Power / Control cable of 1.1 KV	-					
		50.000	metre	308.0	15400.00	308.00	15400.00
10	od201359/2018_2019 LT Power Cables - Providing ca sizes using Siemens type Brass			-			
	-	6.000	No	2152.0	12912.00	2152.00	12912.00
11	od201360/2018_2019 LT Power Cables - Providing cal sizes using Siemens type Brass	0 0 0		0			
		8.000	No	1713.0	13704.00	1713.00	13704.00
12	od201361/2018_2019 LT Power Cables - Providing cal sizes using Siemens type Brass			-			
	10	2.000	No	437.0	874.00	437.00	874.00
13	od201362/2018_2019 LT Power Cables - Providing cal sizes using Siemens type Brass od201363/2018_2019 LT Power Cables - Supply & dra	ble glanding, gla compression gl 2.000	and & Co No	217.0	etc. complete. 434.00		
	Copper conductor round flexible 8130/1984 Insulated and sheat conforming to IS 694/1990 for v casing capping wall. 3C x 0.5 S	e wire manufact thed with electr working voltage	ured with	bright anr e PVC cor	nealed bare co npound as pei	pper condu r IS 5831/1	uctor as per 984 genera
	Copper conductor round flexible 8130/1984 Insulated and sheat conforming to IS 694/1990 for v	e wire manufact thed with electr working voltage	ured with	bright anr e PVC cor	nealed bare co npound as pei	pper condu r IS 5831/1	uctor as per 984 genera
15	Copper conductor round flexible 8130/1984 Insulated and sheat conforming to IS 694/1990 for v	e wire manufact thed with electr working voltage Sqmm 25.000 awing the follow e wire manufact thed with electr working voltage	metre ing size o ured with	bright ann e PVC cor d including 47.0 of FR Multi bright ann e PVC cor	nealed bare co npound as per 1100 V throug 1175.00 -core PVC Insu nealed bare co npound as per	pper condu r IS 5831/1 gh existing 47.00 ulated and pper condu r IS 5831/1	uctor as per 984 genera PVC condu 1175.00 PVC sheath uctor as per 984 genera



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	od201365/2018_2019 PVC Conduits - Supply and p confirming to IS 9537/1983 or 20mm dia 1.5mm thick	-	-		-		•
		350.000	metre	88.0	30800.00	88.00	30800.00
17	od201366/2018_2019 PVC Conduits - Supply and p confirming to IS 9537/1983 or 25mm dia 1.5mm thick	-	-		-		•
		250.000	metre	107.0	26750.00	107.00	26750.00
18	od201367/2018_2019 PVC Conduits - Supply and confirming to IS 9537/1983 or 32mm dia 1.5mm thick		-		-		•
		100.000	metre	138.0	13800.00	138.00	13800.00
19	od201368/2018_2019 PVC Conduits - Supply & provi	ding Capping / Cas	sing of go	od quality	of the following	sizes. 20 n	nm
		100.000	metre	43.0	4300.00	43.00	4300.00
~~	od201369/2018_2019	Kerala Wa	ater A	uthorit	y		
20	PVC Conduits - Supply & provi	ding Capping / Cas	sing of go	od quality	of the following	sizes. 25 n	nm
20		ding Capping / Cas 100.000	sing of go metre	od quality 49.0	of the following 4900.00	sizes. 25 n 49.00	nm 4900.00
20		- Supply & laying	metre the follow	49.0 wing size o	4900.00	49.00	4900.00
	PVC Conduits - Supply & provi od201370/2018_2019 UG Cable Tamper Protection	- Supply & laying	metre the follow	49.0 wing size o	4900.00	49.00	4900.00
	PVC Conduits - Supply & provi od201370/2018_2019 UG Cable Tamper Protection	100.000 - Supply & laying ch in position etc. 10.000 - Supply & laying	metre the follow complete metre the follow	49.0 wing size o 2. 50 mm 379.0 wing size o	4900.00 of B class GI P 3790.00	49.00 ipe for UG 379.00	4900.00 Cable tamper 3790.00

23	od201372/2018_2019 Circuit Mains - Supply and wiring the	following s	size of P\	/C insulate	ed copper wire	manufactu	red with bright
	annealed bunched electrolytic copper compound per as IS 5831/1984 Genera 1100 V.through the existing PVC condu	ally Confo	rming to I	S 694/199	0 for working v	oltage up to	-
		100.000	metre	199.0	19900.00	199.00	19900.00
24	od201373/2018_2019 Circuit Mains - Supply and wiring the annealed bunched electrolytic copper compound per as IS 5831/1984 Genera 1100 V.through the existing PVC condu	conductor ally Confo	as per IS rming to I	S 8130/198 S 694/199	4 insulated wit 0 for working ve	h di-electri oltage up te	cal grade PVC
		200.000	metre	154.0	30800.00	154.00	30800.00
	annealed bunched electrolytic copper compound per as IS 5831/1984 Genera 1100 V.through the existing PVC condu	ally Confo	rming to I	S 694/199	0 for working v	oltage up to	-
		350.000	metre	118.0	41300.00	118.00	41300.00
26	od201375/2018_2019 Cable Supports & Trenching- Supply angles 25x25x6mm (ISA) and 25x6mm and supported using 25cm long 32x6m painted with two coats of Zine Chroma	and erecti MS flats v m MS flat	on of Ca with and a at every	20cm spac 1m spacin	nd cable supp ing between su g. The cable tra	accessive o	cross members
		500.000	kg	149.0	74500.00	149.00	74500.00
27	od201376/2018_2019 Cable Supports & Trenching- Supply a cutting, welding, painting etc. as requir	nd providi	ng 6mm	MS cheque	ered plate of su	1	L
27	Cable Supports & Trenching- Supply a	nd providi	ng 6mm cable tre	MS cheque	ered plate of su	1	L
27 28	Cable Supports & Trenching- Supply a	nd providi ed for the 100.000 all type o ning of 15	ng 6mm cable tre kg f soil incl 0mm refi	MS cheque nch coveri 121.0 luding prov	ered plate of sund ng. 12100.00 viding country b poring normal su	itable thick 121.00	ness includin 12100.00 s breadth wise



29	above the cal	18_2019 making cable trenche ble, providing sand cu the following size. 35	ushioning of 15	0mm refi	lling & resto	oring normal su		
			100.000	metre	604.0	60400.00	604.00	60400.00
30		18_2019 rts & Trenching - Supp elded to 35x35x6mm a	ply route marke		cmx10cm C	GI plate 5mm t	hick with ins	criptions the
			50.000	No	516.0	25800.00	516.00	25800.00
		rts & Trenching - Supp elded to 35x35x6mm a	angle iron 60cn			•		
SI No	Spec	Description	25.000 Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
	quantity of ch mm broken s the exposed	e fixed to the earth p narcoal including cons tone (10 cm thick), br surface of PCC bed w 150 mm) but excluding	struction of insp ick work in cen vith cement mo	pection c nent mor rtar 1:4,	hamber with tar 1:6, plas 12 mm thick	h a bed concre stering the sur k, (the finished	ete of 1:4:8 face of brick inside dime	PCC using 4 masonry ar
			8.000	set	11091.0	88728.00	11091.00	88728.00
2	weld mesh, fi concrete of 1 the surface o finished insid	18_2019 roviding pipe earthing lling required quantity :4:8 PCC using 40 m f brick masonry and th e dimension shall be d covering at the top.	v of charcoal & m broken ston he exposed su	salt inclu e (10 cm rface of l	iding constr i thick), bric PCC bed wi	uction of inspe k work in cem th cement mo	ection cham ent mortar rtar 1:4, 12	ber with a be 1:6, plasterir mm thick, (th
		a covoring at the top.						
			5.000	set	2952.0	14760 00	2952.00	14760.00
3	od201563/20		5.000	set	2952.0	14760.00	2952.00	14760.00



			300.000	metre	1600.0	480000.00	1600.00	480000.00
4	Supply &	/2018_2019 laying the following sizes earthing along with cable		•	-			
			500.000	metre	797.0	398500.00	797.00	398500.00
5	Supply ar	/2018_2019 Id drawing bare earthing co n as required. No.16 SWG			ving sizes a	long with wiring	g/ cables a	nd giving earth
	1		300.000	metre	199.0	59700.00	199.00	59700.00
6	Supply ar	/2018_2019 d drawing bare earthing co n as required. No.10 SWG			ving sizes a	long with wiring	g/ cables a	nd giving earth
		6.	600.000	metre	113.0	67800.00	113.00	67800.00
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
1	Supply ar	/2018_2019 Id providing 6 mm thick & 2 strength conforming to IS 5		ctrical gra	ade cheque	ered type rubbe	r mat to wi	thstand 3.3 KV
		P	5.000	sqm	773.0	3865.00	773.00	3865.00
2	Supply an	/2018_2019 d providing 12 mm thick & strength conforming to IS 5		-	•	• •	er mat to w	ithstand 15 KV
			2.000	sqm	1379.0	2758.00	1379.00	2758.00
3	Supply an	/2018_2019 d providing 5 Kg. Dry Cher s required.	mical Powder	r type Fire	e Extinguisl	her with hose a	nd clamps	including fixing
			2.000	set	2383.0	4766.00	2383.00	4766.00
4	Supply ar and writte	/2018_2019 nd providing 9 Litre capacin en with white paint 'FIRE' he bracket/ floor stand in	ty GI Fire Bu mounted or	icket pair n MS ang	nted in posi gle frame v	t office red with work/ wall brac	n primer co cket filled v	at of red oxide with fine sand,
	1		4.000	set	638.0	2552.00	638.00	2552.00

		2018_2019 I providing First Aid Chart d	luly framed	and place	ed in a cons	picuous locatio	on for clear	vision.
			1.000	set	247.0	247.00	247.00	247.00
6	od201642/ Supply and for clear vi	d providing Laminated Elec	ctrical Sche	matic dia	igram frame	ed and placed	in a conspic	cuous locatior
			1.000	set	226.0	226.00	226.00	226.00
7	Supply & p	2018_2019 providing Aluminium anodise nd Malayalam) and conve n Charge	-				•	
		1	10.000	No	267.0	2670.00	267.00	2670.00
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
1	SCHEME /	2018_2019 APPROVAL & POWER AL op calculations, Earthing de						-
	SCHEME A Voltage dro MV additio	APPROVAL & POWER AL	esign & faul aining app	lt level ca roval, ar	Iculations to ranging insp	o the Electrical	l Inspectorat tire installat	te including a ion, obtainin
	SCHEME A Voltage dro MV additio	APPROVAL & POWER AL op calculations, Earthing de ons recently made and obt	esign & faul aining app	lt level ca roval, ar	Iculations to ranging insp	o the Electrical	l Inspectorat tire installat	te including a ion, obtainin
2	SCHEME / Voltage dro MV additions sanction of od202020// SCHEME / KSEB for o	APPROVAL & POWER AL op calculations, Earthing de ons recently made and obt rders for the electrical ins 2018_2019 APPROVAL & POWER AL obtaining sanction for power n and execution of HT agr	esign & faul aining app tallation, co 1.000 LOCATION r allocation	It level ca roval, an omplete L.S I - Prepar	Iculations to ranging insi (Including a 20000.0 ration and s g all inciden	the Electrical pection for en- ill incidental a 20000.00 submission of I tal and statuto	I Inspectorat tire installat nd statutory 20000.00 atest schem ry expenses	te including a tion, obtaining expenses). 20000.00 ne drawings to) .Preparation
	SCHEME / Voltage dro MV additions sanction of od20202020/2 SCHEME / KSEB for of submission	APPROVAL & POWER AL op calculations, Earthing de ons recently made and obt rders for the electrical ins 2018_2019 APPROVAL & POWER AL obtaining sanction for power n and execution of HT agr	esign & faul aining app tallation, co 1.000 LOCATION r allocation	It level ca roval, an omplete L.S I - Prepar	Iculations to ranging insi (Including a 20000.0 ration and s g all inciden	the Electrical pection for en- ill incidental a 20000.00 submission of I tal and statuto	I Inspectorat tire installat nd statutory 20000.00 atest schem ry expenses	te including a tion, obtaining expenses). 20000.00 ne drawings to) .Preparation
2	SCHEME / Voltage dro MV additions sanction of od20202020/2 SCHEME / KSEB for of submission	APPROVAL & POWER AL op calculations, Earthing de ons recently made and obt rders for the electrical ins 2018_2019 APPROVAL & POWER AL obtaining sanction for power n and execution of HT agr	esign & faul aining app tallation, co 1.000 LOCATION r allocation eement(6 s	It level ca roval, an omplete L.S I - Prepar (Including ets) as p	Iculations to ranging insi (Including a 20000.0 ration and s g all inciden per the rene	o the Electrical pection for en- ill incidental a 20000.00 submission of I tal and statuto wed Contract	Inspectoral tire installat nd statutory 20000.00 atest schem ry expenses demand ac	te including a tion, obtaining expenses). 20000.00 the drawings to) .Preparation cording to the
2	SCHEME / Voltage dro MV additions sanction of od202020// SCHEME / KSEB for of submission latest addition	APPROVAL & POWER AL op calculations, Earthing de ons recently made and obt rders for the electrical ins 2018_2019 APPROVAL & POWER AL obtaining sanction for power n and execution of HT agre tions.	esign & faul aining app tallation, co 1.000 LOCATION r allocation eement(6 s 1.000 Quantity	It level ca roval, an omplete L.S I - Prepar (Including ets) as p L.S Unit	Iculations to ranging insi (Including a 20000.0 ration and s g all inciden per the rene 15000.0 DSOR Rate	the Electrical pection for en- ill incidental a 20000.00 ubmission of I tal and statuto wed Contract 15000.00 TS Amount	Inspectoral tire installat nd statutory 20000.00 atest schem ry expenses demand ac 15000.00 LMR Rate	te including a tion, obtaining expenses). 20000.00 the drawings to) .Preparation cording to the 15000.00
	SCHEME / Voltage dro MV additions sanction of od202020// SCHEME / KSEB for of submission latest addition	APPROVAL & POWER AL op calculations, Earthing de ons recently made and obter rders for the electrical ins 2018_2019 APPROVAL & POWER AL obtaining sanction for power in and execution of HT agree tions.	esign & faul aining app tallation, co 1.000 LOCATION r allocation eement(6 s 1.000 Quantity n, testing ar	It level ca roval, an omplete L.S I - Prepar (Including ets) as p L.S Unit	Iculations to ranging insi (Including a 20000.0 ration and s g all inciden per the rene 15000.0 DSOR Rate	the Electrical pection for en- ill incidental a 20000.00 ubmission of I tal and statuto wed Contract 15000.00 TS Amount motor pump se	Inspectoral tire installat nd statutory 20000.00 atest schem ry expenses demand ac 15000.00 LMR Rate	te including a tion, obtaining expenses). 20000.00 the drawings to) .Preparation cording to the 15000.00
2	SCHEME / Voltage dro MV additions sanction of od202020// SCHEME / KSEB for of submission latest addition	APPROVAL & POWER AL op calculations, Earthing de ons recently made and obter rders for the electrical ins 2018_2019 APPROVAL & POWER AL obtaining sanction for power in and execution of HT agree tions.	esign & faul aining app tallation, co 1.000 LOCATION r allocation eement(6 s 1.000 Quantity n, testing ar	It level ca roval, an omplete L.S I - Prepar (Including ets) as p L.S Unit	Iculations to ranging insp (Including a 20000.0 ration and s g all inciden per the rene 15000.0 DSOR Rate issioning of	the Electrical pection for en- ill incidental a 20000.00 ubmission of I tal and statuto wed Contract 15000.00 TS Amount motor pump se	Inspectoral tire installat nd statutory 20000.00 atest schem ry expenses demand ac 15000.00 LMR Rate	te including a ion, obtainin (expenses) 20000.00 ne drawings t) .Preparation cording to th 15000.00



1	od197162/2018_2019 Supply, Erection, Testing and Commis 3300V) having discharge of 80 lps ag raw water pumping station to Alady pl	ainst a tota	l head of	180 M. suo	ction head 20.3				
		2.000	No	3888802. 96	7777605.92	3888802. 95	7777605.90		
2	od197164/2018_2019 Supply of additional cable byond the in and from starter to motor	nitial supply	y of 10Mt	r. Additiona	I requirement f	rom panel t	poard to starte		
		25.000	metre	1518.0	37950.00	1518.00	37950.00		
	Supply of suitable size PVC insulated code, for giving power connections including end termination materials a	to main sw	vitchboard	d to panne	I board etc. co	mplete as	per standard		
	104	20.000	metre	1518.0	30360.00	1518.00	30360.00		
4	2.8.1 Earth work in excavation by mechanic or drains (not exceeding 1.5 m in w bottoms, lift up to 1.5 m, including ge directed, within a lead of 50 m.All kir	idth or 10 etting out th nds of soil	sqm on p ne excava	olan), inclu ated soil ar	ding dressing nd disposal of s	of sides an surplus exc	nd ramming o cavated soil a		
		15.000	cum	309.95	4649.25	319.55	4793.25		
5	od197167/2018_2019 Providing 350mm surge arrestor- Providing 350mm surge arrestor having test pressure 45Kg/cm2 to the clear water pumping main including cost of specials such as 2 Nos. Tail piece, 2 Nos. Mechanical joints, cutting the existing DI pipe, inserting surge arrestor, jointing with flanged joints etc. including cost of surge arrestor.(Rate as per DSR Observed data)								
		1.000	No	600000.0	600000.00	600000.0 0	600000.00		
6	od197168/2018_2019 Providing 350mm surge arrestor- Cement concrete 1:2:4 using 20mm nominay size metal for anchore block including charges of form work and labour charges etc. complete.(Rate as per DSR Observed data)								
	I	5.000	cum	8941.83	44709.15	8941.85	44709.25		



7	Providing with flang sluice val	0/2018_2019 350mm surge arrestor- Prov ged ends including all cost of ve - 1 No. etc and all labour Rate as per DSR Observed of	of materials charges fo	such a	s 200mm ai	ir cushion valv	e - 1 No., 2	200mm D/F CI
	1		1.000	No	409500.0	409500.00	409500.0 0	409500.00
8	Providing providing	0/2018_2019 g 350mm surge arrestor- C the zero velocity valve incl by the departmental officers	luding all co	ost of m	aterials, lab	our charge, fo		
			1.000	No	63841.4	63841.40	63841.40	63841.40
9		I/2018_2019 DRY APPROVAL FROM KSI	ЕВ		X	A	1 1	
		1 Br	1.000	No	50000.0	50000.00	50000.00	50000.00
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
	-	11 KV line extension, CD and KVA (Approval from KSE		charges	for the pow	Ver connection	of Alady w	ater treatment
			1.000	No	2439594. 0	2439594.00	2439594. 00	2439594.00
2	-	19_2020 11 KV line extension, CD a station - 500 KVA (Approv		-	for the pow	ver connection	of Thonith	ady raw water
	1		1.000	No	872306.0	872306.00	872306.0 0	872306.00
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
40	9(a) Supp	ly, Erection, Testing and Col pum	-	-	os motor pun top GL tank		yanpara pur	mp house for
		No Spec	ifications ac	ded und	der this Estin	nate		
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
41	9(a.) Supp							



	motor Pu	Erection mpset I	2021 I, Testing and Co naving discharge umping station.(I	of 3.50 lps aga	inst a tota	al head of 1	73 M. suction I	•	
				2.000	No	247846.9 2	495693.84	247846.9 0	495693.80
2	od54106/ Supply of and from	additio	onal cable byond	the initial supply	/ of 10Mt	r. Additiona	l requirement f	rom panel t	board to starter
				25.000	metre	193.2	4830.00	193.20	4830.00
	code, for	giving	le size PVC insu power connecti rmination mater	ons to main sw	itchboar	d to panne	l board etc. co	mplete as	per standards
	1		- 16	20.000	metre	266.8	5336.00	266.80	5336.00
4	od54108/ STATUT(2021 PPROVAL FROM		ater A	uthorit	V		
L				1.000	No	25000.0	25000.00	25000.00	25000.00
				1.000	nu	25000.0			20000.00
SI No	Spec		Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
SI No 42	9(b) Supp	-	ction, Testing an pumpi	Quantity	_{Unit} g of 2 No	DSOR Rate	np sets at Nari	11	LMR Amount
	9(b) Supp od54144/ Supply, E motor Pu	2020_2 Erection mpset h	ction, Testing an pumpi	Quantity d Commissioning ng to Mulakaram ommissioning of of 22 lps agains	Unit g of 2 No iedu/ Koc 2 Nos no st a total I	DSOR Rate s motor pur shuthovala (ew Horizon head of 113	np sets at Nari GL tank tal / Vertical ty M. suction hea	yanpara pu pe multi sta ad 5m, spee	LMR Amount mp house for age Centrifugal
42	9(b) Supp od54144/ Supply, E motor Pu	2020_2 Erection mpset h	ction, Testing an pumpi 2021 , Testing and Co naving discharge	Quantity d Commissioning ng to Mulakaram ommissioning of of 22 lps agains	Unit g of 2 No iedu/ Koc 2 Nos no st a total I	DSOR Rate s motor pur shuthovala (ew Horizon head of 113	np sets at Nari GL tank tal / Vertical ty M. suction hea	yanpara pu pe multi sta ad 5m, spee	LMR Amount mp house for age Centrifugal
42	9(b) Supp od54144/ Supply, E motor Pu Nariampa od54145/ Supply o	2020_2 Erection mpset h ara pum 2020_2 f additi	ction, Testing an pumpin 2021 I, Testing and Co naving discharge oping station.(Inte	Quantity d Commissioning on Mulakaram ommissioning of of 22 lps agains ermediate sump 2.000	Unit g of 2 No iedu/ Koc 2 Nos no st a total I to Mulaka	DSOR Rate s motor pur shuthovala (ew Horizon head of 113 aramedu ar 734489.4 1	np sets at Nari GL tank tal / Vertical ty M. suction hea nd Kochuthoval 1468978.82	yanpara pu pe multi sta ad 5m, spec a GLSR) 734489.4 0	LMR Amount mp house for age Centrifugal ed 1450 rpm at 1468978.80



3 od54146/2020_2021

Supply of suitable size PVC insulated, sheathed, armoured copper conductor cable conforming to relevantIS code, for giving power connections to main switchboard to pannel board etc. complete as per standards including end termination materials as per IE rules. The supply shall be limited to the actual requirement.

			·		,			·
			20.000	metre	816.5	16330.00	816.50	16330.00
4	od54147/20 STATUTOR	20_2021 Y APPROVAL FROM	KSEB					
			1.000	No	25000.0	25000.00	25000.00	25000.00
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
43 9	9(c) Supply, I	Erection, Testing and C	Commissioning to Labba			o sets at Kaltho	otty pump h	ouse pumpir
1	motor Pump	20_2021 ction, Testing and Cor oset having discharge of mping station.(To Lab	of 11 lps agains	st a total				-
		R	2.000	No	116130.5 1	232261.02	116130.5 0	232261.0
2	od54191/20 STATUTOR	20_2021 Y APPROVAL FROM	Kerala Wa	ater A	uthorit	y F		
			1.000	No	5000.0	5000.00	5000.00	5000.00
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
44 9	9(d) Supply, I	Erection, Testing and C	e e	of 2 Nos oara GL ta	• •	p sets at Kaltho	otty pump h	ouse pumpi
1	motor Pump	20_2021 ction, Testing and Cor set having discharge of mping station.(Kalthott	of 11 lps agains	t a total h				•
			2.000	No	646338.9 7	1292677.94	646338.9 5	1292677.9
2		20_2021 dditional cable beyon from starter to motor		pply of 1	0Mtr. Addi	tional requirer	nent from p	oanel board
	1		25.000	metre	339.25	8481.25	339.25	8481.25
i i i i i i i i i i i i i i i i i i i			· ·		I		ı – – – – – – – – – – – – – – – – – – –	

3 od54204/2020_2021 Supply of suitable size PVC insulated, sheathed, armoured copper conductor cable conforming to relevantIS code, for giving power connections to main switchboard to pannel board etc. complete as per standards including end termination materials as per IE rules. The supply shall be limited to the actual requirement. 20.000 metre 396.75 7935.00 396.75 7935.00 4 od54205/2020_2021 STATUTORY APPROVAL FROM KSEB 1.000 No 25000.0 25000.00 25000.00 25000.00 Unit DSOR Rate TS Amount LMR Rate SI No Description Quantity LMR Amount Spec 9(e) Power allocation charges (OYEC & CD) Extension of three phase line to Kalthotti and Nariyanpara pumping 45 station 1 od54540/2020 2021 Power allocation and energization of clear water pump house at Kalthotty (Including application fee, power allocation fee, Estimate cost for service connection, Cash deposit) - As per intimation notice DB-2018-19/ESKNCHR/326 dated 22.03.2019 from KSEB) 1965000. 1.000 No 1965000. 1965000.00 1965000.00 00 0 Kerala Water Authority 2 od54541/2020_2021 Any additional cost for actual execution of work - Power allocation and energization of clear water pump house at Kalthotty 100 KVA (Approval from KSEB) 200000.0 200000.00 200000.00 1.000 L.S 200000.0 0 3 od54542/2020_2021 Power allocation and energization of clear water pump house at Nariyampara (Including application fee, power allocation fee, Estimate cost for service connection, Cash deposit) - As per intimation notice DB-2018-19/ESKNCHR/326 dated 22.03.2019 from KSEB) 920000.0 920000.00 920000.00 1.000 No 920000.0 0 4 od54543/2020 2021 Any additional cost for actual execution of work - Power allocation and energization of clear water pump house at Nariyampara 160 KVA (Approval from KSEB) 200000.0 L.S 200000.00 200000.00 1.000 200000.0 0 Unit DSOR Rate TS Amount I MR Rate LMR Amount SI No Description Quantity Spec



			No Spe	cifications a	dded und	er this Estin	nate		
SI No	Spec	Descr	iption	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
47		Erection, Testing a total head of 8		-		-		-	•
1	Supply, E motor Pu	/2020_2021 Erection, Testing Impset having d Iter treatment pla	ischarge of	5 lps agains				•	• •
				2.000	No	238352.1 2	476704.24	238352.1 0	476704.20
2	Supply o	/2020_2021 f additional cab nd from starter	-	the initial su	ipply of 1	0Mtr. Addi	tional requirer	ment from p	anel board t
						1 1		1	
3		/2020_2021		25.000	metre	416.3	10407.50	416.30	10407.50
3	Supply o code, for	/2020_2021 f suitable size P giving power c end terminatio	onnections	ed, sheathed to main sw	l,armoure	d copper co d to pannel	onductor cable board etc. co	e conformino omplete as	g to relevantl per standard
3	Supply o code, for	f suitable size P giving power c	onnections	ed, sheathed to main sw	l,armoure	d copper co d to pannel	onductor cable board etc. co	e conformino omplete as	g to relevant per standard
3	Supply o code, for including od54794,	f suitable size P giving power c	n materials	ed, sheathed to main sw as per IE ri 20.000	l,armoure vitchboard ules. The	d copper co d to pannel supply sha	onductor cable I board etc. co all be limited t	e conforming omplete as the actua	g to relevanti per standarc I requiremer
	Supply o code, for including od54794,	f suitable size P giving power c end terminatio	n materials	ed, sheathed to main sw as per IE ri 20.000	l,armoure vitchboard ules. The	d copper co d to pannel supply sha	onductor cable I board etc. co all be limited t	e conforming omplete as the actua	g to relevantl per standard I requiremer 8326.00
	Supply o code, for including od54794,	f suitable size P giving power c end terminatio	n materials	ed, sheathed s to main sw as per IE ri 20.000 SEB	I,armoure vitchboard ules. The metre	d copper co d to pannel supply sha 416.3	onductor cable board etc. cc all be limited t 8326.00	e conforming omplete as to the actua 416.30	g to relevantl per standarc I requiremer
4 <u>SI No</u> 8 (Supply o code, for including od54794, STATUT STATUT (2) - Supply Ips agains od55073, Supply, E motor Pu	f suitable size P giving power c end terminatio /2020_2021 ORY APPROVA	iption and Comn scharge of 6	ed, sheathed s to main sw as per IE/ri 20.000 SEB 1.000 Quantity mmissioning etion head 5n Nariyan	I,armoure vitchboard ules. The metre No Unit of 2 Nos n speed 1 npara sur	d copper cr d to pannel supply sha 416.3 25000.0 DSOR Rate new Centrif 450 rpm at nps	onductor cable board etc. cc all be limited t 8326.00 25000.00 TS Amount fugal motor Put WTP sump for tal / Vertical ty M. suction he	e conforming omplete as to the actual 416.30 25000.00 LMR Rate mpset havin r pumping to pe multi sta ad 5m, spee	g to relevant per standard l requiremer 8326.00 25000.00 LMR Amount g discharge o Kalthotty / ge Centrifug



2	od55074/2020_2021 Supply of additional cable beyond th starter and from starter to motor	e initial su	ipply of 1	0Mtr. Addi	itional requiren	nent from p	oanel board to		
		25.000	metre	1104.0	27600.00	1104.00	27600.00		
3	od55075/2020_2021 Supply of suitable size PVC insulated, code, for giving power connections t including end termination materials a	to main sv	vitchboar	d to panel	board etc. co	mplete as	per standard		
		20.000	metre	1104.0	22080.00	1104.00	22080.00		
4	od55076/2020_2021 Earth work in excavation by mechanica or drains (not exceeding 1.5 m in wi bottoms, lift up to 1.5 m, including ge directed, within a lead of 50 m.All class	dth or 10 tting out th	sqm on p ne excava	olan), inclu ated soil ar	ding dressing ding disposal of s	of sides ar surplus exc	nd ramming o		
	1 A	15.000	cum	425.54	6383.10	425.55	6383.25		
5	2.8.1 Earth work in excavation by mechanic or drains (not exceeding 1.5 m in wi bottoms, lift up to 1.5 m, including ge directed, within a lead of 50 m.All kin	dth or 10 tting out th	sqm on p	olan), inclu	ding dressing	of sides ar	nd ramming o		
		15.000	cum	309.95	4649.25	319.55	4793.25		
6	od55077/2020_2021 Providing 350mm surge arrestor havin cost of specials such as 2 Nos. Tail p surge arrestor, jointing with flanged jo data)	piece, 2 N	os. Mech	anical joint	s, cutting the e	existing DI	pipe, insertin		
		1.000	No	600000.0	600000.00	600000.0 0	600000.00		
7	od55078/2020_2021 Cement concrete 1:2:4 using 20mm nominay size metal for anchore block including charges of form work and labour charges etc. complete (Rate as per DSR observed data)								
	1	5.000	cum	8941.83	44709.15	8941.85	44709.25		

8	od55079/2020_2021 Providing air cushion valve of diameter - 200mm & test pressure 45 Kg/cm2 with flanged ends including all cost of materials such as 200mm air cushion valve - 1 No., 200mm D/F CI sluice valve - 1 No. etc and all
	labour charges for fitting the same in position as directed by the departmental officers.(Rate as per DSR Observed data)
	1.000 No 409500.00 409500.00 409500.00
9	od55080/2020_2021 Constructing RCC valve chamber of size 2.50m x 1.20m x 1.20m for providing the zero velocity valve including all cost of materials, labour charge, form work etc complete as directed by the departmental officers. (Rate as per DSR Observed data)
	1.000 No 63841.00 63841.00 63841.00 63841.00
10	od55081/2020_2021 STATUTORY APPROVAL FROM KSEB
	1.000 No 25000.0 25000.00 25000.00 25000.00
	Estimate PAC 53654910.55
	LMR Estimate PAC 55989263.00
	Kerala Water Authority Percentage Excess 4.35
	Rupees Five Crore Fifty Nine Lakh Eighty Nine Thousand Two Hundred and Sixty Three Only
	PRICE



PRICE

KIII	FB Project:TRAN10: WRD02	5- 06 -\	NSS to	о Аууарр	bankovil Pa	Inchaya	t in Idukki
Dist	trict-Part II-Package-II- Suppl	ying, la	ying ar	nd comr	nissioning	350mm,	300mm&
250	omm DI pumping/ gravity mair	n and 8	0mm (31 pump	ing main, ir	nprover	nent work
C	of Kalthotty sump& pump hou	ise, cor	nstructi	on of pip	be line brid	ge, desi	gn and
cons	struction of 1.00LL capacity s					•	<u> </u>
	water disposal pipe line at	t WTP	Alady a	and inte	rconnectior	n works	etc
	LMR Abstract with DAR 21-IDK(Iduk	ki & Udun	nbanchola	a & Peerun	nedu) 01/07/202	22 - 30/09/2	2022
SI No	Spec Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
5 Ap	opendix A- (1) - Supply and laying 350mr Kalthotty sum		-	•		pipe from .	Alady GLSR to
1	100.98.119	<u> </u>	<u> </u>	,			
	Supply of DI K9 Pipe Conforming to IS 8	8329/2000), 300mm	Dia.			
		1870.00 0	metre	4520.63	8453578.10	4274.30	7992941.00
2	100.98.120	6.2	AL.	3			
	Supply of DI K9 Pipe Conforming to IS 8	8329/2000), 350mm	Dia.	0	Γ	
	14	5353.00 0	metre	5506.95	29478703.35	5238.35	28040887.55
3	100.98.461						
	Supply of CI Double Flanged Sluice Val 200mm.	lve Confoi	rming to I	S 14846 - 2	2000, Sluice Va	lve with Ca	p PN 1.6, Size
	Kera	ala Wa	ater A	uthorit 23723.65	y 118618.25	11794.00	58970.00
4	100.98.463	R			H		
	Supply of CI Double Flanged Sluice Val 300mm.	lve Confoi	rming to I	S 14846 - 2	2000, Sluice Va	lve with Ca	ip PN 1.6, Size
		1.000	No	43312.35	43312.35	21653.95	21653.95
5	100.98.464						
	Supply of CI Double Flanged Sluice Val 350mm.	lve Confoi	rming to I	S 14846 - 2	2000, Sluice Va	lve with Ca	ip PN 1.6, Size
		2.000	No	77806.55	155613.10	31667.35	63334.70
6	od41949/2020_2021						
	Supply DI specials,Tees,Bends,Collars,	Tapers et	С.				
		59.982	quintal	20384.0	1222673.09	19397.05	1163473.85
7	100.98.436						
	Supply of CI Air Valve, Conforming to IS	S 14848 -	2000, Kin	etic Air Val	ve Type DK, Si	ze 80mm.	



	1		4.000	No	11748.55	46994.20	5691.80	22767.20
8	100.98.437 Supply of CI Air Va	lve, Conforming t	to IS 14848 - :	2000, Kir	netic Air Val	ve Type DK, Si	ze 100mm	
			6.000	No	17963.75	107782.50	7621.70	45730.20
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
6 A	Appendix A - (1) - Su		50mm and 30 sump (Re-ar				in pipe from	n Alady GLSF
1	100.1.1 Excavating trenche sides, ramming of I soil as required, in ramming, watering All kinds of soil (Ref. Item No. 2.10	bottoms, depth up n layers not exce g, etc. and dispo	p to 1.5 m, ind eeding 20 cm	cluding g n in dept	etting out th h, including	ne excavated s g consolidating	oil, and the geach depo	n returning th osited layer b
		(k	7346.91	cum	579.85	4260110.98	592.25	4351212.7
2	100.1.5	es of required wic	145	cables e	te includine	excavation for	r sockets a	and dressing
2	100.1.5 Excavating trenche sides, ramming of soil as required, ir ramming, watering Ordinary Rock. (Ref. Item No. 2.13	bottoms, depth up n layers not exce g, etc. and dispo	th for pipes, p to 1.5 m, ind eeding 20 cm	cluding g n in dept	etting out th h, including	ne excavated s g consolidating	oil, and the geach depo	n returning th osited layer b
2	Excavating trenche sides, ramming of soil as required, ir ramming, watering Ordinary Rock.	bottoms, depth up n layers not exce g, etc. and dispo	th for pipes, p to 1.5 m, ind eeding 20 cm	cluding g n in dept	etting out th h, including	ne excavated s g consolidating	oil, and the geach depo	n returning th osited layer b
3	Excavating trenche sides, ramming of soil as required, ir ramming, watering Ordinary Rock.	bottoms, depth up n layers not exce g, etc. and dispo a.1 of DSR) y mechanical mea m in width or 10 etting out the exc sting prohibited)	th for pipes, of p to 1.5 m, ind eeding 20 cm sing of surpl 1763.26 1 ans (Hydraulio m2 on plan), cavated soil a	cluding g n in dept us excav cum	etting out th h, including vated soil a 842.1 cor) / manua dressing o	ne excavated s g consolidating is directed, wit 1484842.09 al means in four f sides and ram	oil, and the geach depo thin a lead 1033.20 Indation tren ming of bo	n returning th osited layer to of 50 m :" 1821801.2 nches or drain ttoms, lift up
	Excavating trenches sides, ramming of I soil as required, in ramming, watering Ordinary Rock. (Ref. Item No. 2.13) 100.2.2 Excavation work by (not exceeding 1.5) 1.5 m, including ge lead of 50 m. Medium Rock (blass	bottoms, depth up n layers not exce g, etc. and dispo a.1 of DSR) y mechanical mea m in width or 10 etting out the exc sting prohibited)	th for pipes, of p to 1.5 m, ind eeding 20 cm sing of surpl 1763.26 1 ans (Hydraulio m2 on plan), cavated soil a	cluding g n in dept us excav cum	etting out th h, including vated soil a 842.1 cor) / manua dressing o	ne excavated s g consolidating is directed, wit 1484842.09 al means in four f sides and ram	oil, and the geach depo thin a lead 1033.20 Indation tren ming of bo	n returning th osited layer b of 50 m :" 1821801.27 nches or drain ttoms, lift up f
	Excavating trenches sides, ramming of I soil as required, in ramming, watering Ordinary Rock. (Ref. Item No. 2.13) 100.2.2 Excavation work by (not exceeding 1.5) 1.5 m, including ge lead of 50 m. Medium Rock (blass	bottoms, depth up n layers not exce g, etc. and dispo 3.1 of DSR) y mechanical mea m in width or 10 etting out the exc sting prohibited) from Item No.2.9.	th for pipes, of p to 1.5 m, ind eeding 20 cm sing of surpl 1763.26 1 ans (Hydraulio m2 on plan), cavated soil a 3 293.878 nical means (ell as 10 sqm	cluding g n in dept us excav cum cexcavat including and dispo cum Hydraulic on plan)	etting out th h, including vated soil a 842.1 for) / manua dressing o sal of surpl 1106.34 c excavator including d	ne excavated s g consolidating is directed, with 1484842.09 al means in four f sides and ram lus excavated s 325128.99)/ manual mea isposal of exca	oil, and the geach depo thin a lead 1033.20 Indation tren ming of bo soils as dir 1547.00 Ins over are vated earth	en returning the sited layer to of 50 m :" 1821801.27 nches or drain ttoms, lift up ected, within 454629.27 eas (exceeding), lead up to 5

5	100.4.1 Excavating in hard rock for trench measurements and disposing unservi depth 0 m to 1.50m) and providing pro nearby structures(200 Nos. of earth fil	ceable ma tection by	iterials wi earth fille	thin the int d cement b	ial lead of 50m bags during bla	and lift up	oto 1.50m(intial
	(Ref. Item No. 1004 A of T C)						
		195.918	cum	4093.4	801970.74	2547.30	499061.92
6	100.8.1 Fencing one side of trenches, 1.50 m pole (girth 15cm to 24cm) fixed at 2 m (Data Prepared based on PWD SDB -	intervals.		s of 10 cm	plastic caution	tape in vei	rtical casuarina
		2900.00 0	metre	28.82	83578.00	29.10	84390.00
7	100.8.2 Fencing 1.50m high with two rows of casuarina pole (girth 15cm to 24cm) NEW DATA (Prepared based on PWD	fixed at 1	.5m inter	vals.	to 24cm) tied	with coir y	arn on vertical
		4000.00 0	metre	99.36	397440.00	100.25	401000.00
8	50.2.25.1 Filling with contractor's own earth (ex exceeding 20 cm in depth, consolidati lift up to 1.5 m as per direction of site	ng each de	posited la				•
	D	350.000	cum	548.85	192097.50	342.40	119840.00
9	100.14.5 Conveying and laying S&S Centrifuga cost of pipes and specials : 300 mm dia Ductile Iron Class K-9 Pipe Data derived from 18.72.19 in DAR		Spun) / D	uctile Iron	Pipes conform	ing to IS: 8	3329 excluding
		1833.00 0	metre	214.13	392500.29	199.55	365775.15
10	100.14.6 Conveying and laying S&S Centrifuga cost of pipes and specials : 350 mm dia Ductile Iron Class K-9 Pipe Data derived from 18.72.20 in DAR		Spun) / D	uctile Iron	Pipes conform	ing to IS: 8	3329 excluding
		5248.00 0	metre	283.7	1488857.60	263.05	1380486.40



11	100.31.1.5						
	"Conveying and fixing C.I. sluice va	alves (with ca	p) by pro	oviding com	plete with bol	ts, nuts, rub	ber insertio
	etc. excluding the cost of valve (the	e tail pieces i	f required	d will be pa	id separately)	:	
	200 mm diameter. Class I"						
	Data derived from item no.18.31.4.1	of DAR				T T	
		5.000	Nos	1625.9	8129.50	1770.80	8854.00
12	100.31.1.7						
	"Conveying and fixing C.I. sluice va	alves (with ca	p) by pro	viding com	plete with bol	ts, nuts, rub	ber insertic
	etc. excluding the cost of valve (the	e tail pieces i	f required	d will be pa	id separately)	:	
	300 mm diameter. Class I"						
	Data derived from item no.18.31.6.1	of DAR					
		1.000	Nos	2708.11	2708.11	2949.60	2949.60
13	100.31.1.8	16	12.00				
	"Conveying and fixing C.I. sluice va	alves (with ca	p) by pro	viding com	plete with bol	ts, nuts, rub	ber insertic
	etc. excluding the cost of valve (the			-	-		
	350 mm diameter. Class I"			R			
	Observed Data derived from item no	0.18.31.of DAI	2	24			
		2.000	Nos	3616.3	7232.60	3827.40	7654.80
14	100.32.4		1.755	A Participation	9942-	I I	
14	Conveying and fixing C I Single ac	ting Air Valve	e of appr	oved qualit	w with bolts n	uts rubber ir	sertions et
	excluding the cost of air valve(the				•		
			and the second				
	Data derived from item no.18.59.2 o	f DAR	iler A	utnorit	У		
	D	4.000	Nos	229.21	916.84	259.35	1037.40
15	100.32.5						
15	Conveying and fixing C I Single ac	ting Air Valv	a of appr		with holts n	ute rubber ir	sertions of
	excluding the cost of air valve(the	-			•		130110113 0
	100 mm Double acting Air Valve		roquirou	min bo par	a coporatory).		
	100 mm Double acting Air Valve	6.000	Nos	351 21	2107.26	410 70	2464 20
		6.000	Nos	351.21	2107.26	410.70	2464.20
16	18.30.7	- 1		11			
16	18.30.7 Providing flanged joints to double	- 1		11			
16	18.30.7	flanged C.I./	D.I pipes	s and spec	ials, including	testing of j	oints:300 n
16	18.30.7 Providing flanged joints to double	- 1		11			oints:300 n
16	18.30.7 Providing flanged joints to double	flanged C.I./	D.I pipes	s and spec	ials, including	testing of j	oints:300 n
	18.30.7 Providing flanged joints to double diameter pipe	flanged C.I./ 70.000	D.I pipes	s and spec 603.77	ials, including 42263.90	testing of junction 727.55	oints:300 n 50928.50
	18.30.7 Providing flanged joints to double diameter pipe 18.30.8 Providing flanged joints to double	flanged C.I./ 70.000	D.I pipes	s and spec 603.77	ials, including 42263.90	testing of junction 727.55	oints:300 n 50928.50
17	 18.30.7 Providing flanged joints to double diameter pipe 18.30.8 Providing flanged joints to double diameter pipe 	flanged C.I./ 70.000 flanged C.I./	D.I pipes Nos D.I pipes	s and spec 603.77 s and spec	ials, including 42263.90 ials, including	testing of junction 727.55	oints:300 n 50928.50 oints:350 n
	18.30.7 Providing flanged joints to double diameter pipe 18.30.8 Providing flanged joints to double	flanged C.I./ 70.000 flanged C.I./ 100.000	D.I pipes Nos D.I pipes Nos	s and spec 603.77 s and spec 811.46	ials, including 42263.90 ials, including 81146.00	testing of junction for the testing of junction for testing of	oints:300 n 50928.50 oints:350 n 92105.00

			1	1		1	
	1	300.000	joint	430.68	129204.00	429.30	128790.00
19	18.70.6 Providing push - on-joints to Centrifu joints and including the cost of rubbe			•	or Ductile Iron	Pipes inclu	ding testing of
		1000.00 0	joint	456.93	456930.00	452.50	452500.00
20	18.24 Laying in position S & S or flanged C. cost of specials).	I. special s	such as te	es, bends,	collars, tapers	and caps e	etc. (excluding
		59.982	quintal	603.91	36223.73	616.55	36981.90
21	18.67.1 Providing and laying S & S C.I. Stand mm dia	lard specia	lls suitabl	e for mech	anical jointing	as per IS 1:	3382:Upto 300
		2.400	quintal	14708.65	35300.76	14043.50	33704.40
22	18.67.2 Providing and laying S & S C.I. Standa mm dia	ard special	s suitable	for mecha	nical jointing a	s per IS 133	382:Above 300
	The second s	6.200	quintal	15492.79	96055.30	14786.85	91678.47
23	18.83.7 Kei Labour for cutting C.I. pipe with steel s			uthorit er C.I. pipe	у	1 1	
	P.	10.000	Each Cut	671.63	6716.30	694.55	6945.50
24	18.83.8 Labour for cutting C.I. pipe with steel s	aw.350 mr	n diamete	er C.I pipe			
		25.000	Each Cut	781.1	19527.50	807.85	20196.25
25	100.35.5 Testing 300mm DI/CI pipeline with pot 300 mm dia Observed Data derived from item no.1				pressure.		
	·	1833.00 0	metre	57.81	105965.73	60.95	111721.35
26	100.35.6 Testing 350mm DI/CI pipeline with pot 350 mm dia Observed Data derived from item no.1				pressure.		



		5248.00 0	metre	70.53	370141.44	74.60	391500.80
27	4.1.3 Providing and laying in position cen shuttering - All work up to plinth lev nominal size)		•	0	•		•
		10.000	cum	8340.93	83409.30	10609.70	106097.00
28	5.9.1 Centering and shuttering including s columns, etc for mass concrete	strutting, et	c. and re	moval of fo	orm for:Founda	ations, foot	ings, bases
		40.000	sqm	350.0	14000.00	347.55	13902.00
	Earth work in excavation by mechanic or drains (not exceeding 1.5 m in w bottoms, lift up to 1.5 m, including ge directed, within a lead of 50 m.All kir	vidth or 10 etting out th	sqm on p	olan), inclu	ding dressing	of sides ar	nd ramming
		1.1.1.1.1	1-12		5 B		
30	2.9.1 Excavation work by mechanical mean	65.341	cum c excavat	309.95 or) / manua	20252.44 Il means in fou	319.55	20879.72
30	2.9.1 Excavation work by mechanical mean (not exceeding 1.5 m in width or 10 s to 1.5 m, including getting out the exc	65.341 es (Hydraulie qm on plan	c excavat), includin and disp	or) / manua Ig dressing osal of surp	I means in fou of sides and ra blus excavated	ndation trer amming of	nches or drain bottoms, lift u
30	2.9.1 Excavation work by mechanical mean (not exceeding 1.5 m in width or 10 s to 1.5 m, including getting out the exc	65.341 as (Hydraulid qm on plan cavated soil	c excavat), includin and disp	or) / manua Ig dressing osal of surp	I means in fou of sides and ra blus excavated	ndation trer amming of	nches or drain bottoms, lift u rected, within
	2.9.1 Excavation work by mechanical mean (not exceeding 1.5 m in width or 10 s to 1.5 m, including getting out the exc	65.341 es (Hydraulie qm on plan cavated soil rala Wa 65.341	c excavate), includin and disp ater A cum ete of spe	or) / manua ng dressing osal of surp uthorit 550.62	al means in four of sides and ra olus excavated 35978.06 de excluding t	ndation trer amming of soils as dir 738.65 he cost of	nches or drain bottoms, lift r rected, within 48264.13 centering an
	 2.9.1 Excavation work by mechanical mean (not exceeding 1.5 m in width or 10 stot 1.5 m, including getting out the exclead of 50 m.Ordinary rock 4.1.6 Providing and laying in position censhuttering - All work up to plinth level 	65.341 es (Hydraulie qm on plan cavated soil rala Wa 65.341	c excavate), includin and disp ater A cum ete of spe	or) / manua ng dressing osal of surp uthorit 550.62	al means in four of sides and ra olus excavated 35978.06 de excluding t	ndation trer amming of soils as dir 738.65 he cost of	nches or drain bottoms, lift u rected, within 48264.13 centering ar pregate 40 m
30 31 31 32	 2.9.1 Excavation work by mechanical mean (not exceeding 1.5 m in width or 10 stot 1.5 m, including getting out the exclead of 50 m.Ordinary rock 4.1.6 Providing and laying in position censhuttering - All work up to plinth level 	65.341 es (Hydraulie qm on plan cavated soil rala Wa 65.341 el:1:3:6 (1 e 17.425 fied grade o ent - All wo	c excavat), includin and dispo ater A cum ete of spe cement : cum	or) / manua og dressing osal of surr 0550.62 ecified gra 3 coarse s 7527.06	al means in four of sides and ra- olus excavated 35978.06 de excluding t and : 6 graded 131159.02	ndation trer amming of soils as dir 738.65 he cost of stone agg 9712.35	nches or drain bottoms, lift u rected, within 48264.13 centering ar gregate 40 m 169237.70 ost of centerin
31	 2.9.1 Excavation work by mechanical mean (not exceeding 1.5 m in width or 10 s to 1.5 m, including getting out the excelead of 50 m.Ordinary rock 4.1.6 Providing and laying in position cen shuttering - All work up to plinth leve nominal size) 5.1.2 Providing and laying in position specifishuttering, finishing and reinforcement 	65.341 es (Hydraulie qm on plan cavated soil rala Wa 65.341 el:1:3:6 (1 e 17.425 fied grade o ent - All wo	c excavat), includin and dispo ater A cum ete of spe cement : cum	or) / manua og dressing osal of surr 0550.62 ecified gra 3 coarse s 7527.06	al means in four of sides and ra- olus excavated 35978.06 de excluding t and : 6 graded 131159.02	ndation trer amming of soils as dir 738.65 he cost of stone agg 9712.35	nches or drain bottoms, lift u rected, within 48264.13 centering ar gregate 40 m 169237.70 ost of centerin
31	 2.9.1 Excavation work by mechanical mean (not exceeding 1.5 m in width or 10 s to 1.5 m, including getting out the excelead of 50 m.Ordinary rock 4.1.6 Providing and laying in position cen shuttering - All work up to plinth leve nominal size) 5.1.2 Providing and laying in position specifishuttering, finishing and reinforcement 	65.341 as (Hydraulid qm on plan cavated soil rala Wa 65.341 65.341 17.425 fied grade o ent - All wo ninal size 69.409 cluding stra	c excavate), includin and dispe- ater A cum ete of spe- cement : cum f reinforce ork up to cum	or) / manua og dressing osal of surp uthorit 550.62 ecified gra 3 coarse s 7527.06 ed cement plinth leve 9483.15	al means in four of sides and ra- olus excavated 35978.06 de excluding t and : 6 graded 131159.02 concrete, exclu l:1:1:5:3 (1 ce 658215.96	ndation trer amming of soils as dir 738.65 he cost of stone agg 9712.35 ding the co ment 1.5 c	nches or drain bottoms, lift u rected, within 48264.13 centering ar gregate 40 m 169237.70 st of centerin coarse sand 820987.00



34		ig and shuttering i I pilasters, buttere	-	-			orm for:Walls	(any thickn	ess) including
				202.500	sqm	748.62	151595.55	766.40	155196.00
35	13.1.1 12 mm c	ement plaster of m	ix:1:4(1 ce	ment : 4 fii	ne sand)				
				170.100	sqm	327.85	55767.29	386.35	65718.14
SI No	Spec	Descriptio	on	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
11	Appen	dix A - (2) - Supply		300 mm D anging)- (a		-	n Kalthotty sum	p to Nariya	npara (Re-
1	100.98.1 Supply o	19 f DI K9 Pipe Confo	rming to IS	8329/2000), 300mm	Dia.			
				4927.00 0	metre	4520.63	22273144.01	4274.30	21059476.1
2	100.98.4 Supply o 200mm.	61 f Cl Double Flange	d Sluice Va	lve Confor	ming to I	S 14846 - 2	2000, Sluice Va	lve with Ca	ıp PN 1.6, Siz
				4.000	No	23723.65	94894.60	11794.00	47176.00
3	100.98.4 Supply o 300mm.	63 f Cl Double Flange	d Sluice Va	Ive Confor	ming to I	S 14846 - 2	2000, Sluice Va	lve with Ca	ap PN 1.6, Siz
				2.000	No	43312.35	86624.70	21653.95	43307.90
4	100.98.4 Supply o	40 f CI Air Valve, Con	forming to Is	S 14848 - :	2000, Sir	igle Orifice,	Small Orifice 1	⊺ype S1, Si	ze 25mm.
				3.000	No	5636.75	16910.25	966.75	2900.25
5	100.98.4 Supply o	.44 f CI Air Valve, Con	forming to Is	S 14848 - :	2000, Sir	igle Orifice,	Large Orifice 7	Гуре S2, Si	ze 50mm.
				5.000	No	6110.65	30553.25	1760.95	8804.75
6		/2020_2021 DI specials,Tees,Be	nds,Collars,	Tapers et	с.				
				26.761	quintal	20384.0	545496.22	19397.05	519084.46
SI No	Spec	Descriptio	on	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
12	2 Appen	dix A - (2) - Supply		300 mm D Inging)- (b		-	n Kalthotty sum	p to Nariya	npara (Re-



1	100.1.1 Excavating trenches of required width sides, ramming of bottoms, depth up to soil as required, in layers not exceed ramming, watering, etc. and disposin All kinds of soil (Ref. Item No. 2.10.1 of DSR)	o 1.5 m, ind ling 20 cm	cluding g i in deptl	etting out th h, including	ne excavated s g consolidating	oil, and the geach depo	en returning the osited layer by
		4528.12 5	cum	579.85	2625633.28	592.25	2681782.03
2	100.1.5 Excavating trenches of required width sides, ramming of bottoms, depth up to soil as required, in layers not exceed ramming, watering, etc. and disposin Ordinary Rock. (Ref. Item No. 2.13.1 of DSR)	o 1.5 m, ind ling 20 cm	cluding g i in deptl	etting out th h, including	ne excavated s g consolidating	oil, and the geach depo	en returning the osited layer by
		905.625	cum	842.1	762626.81	1033.20	935691.75
	Excavation work by mechanical means (not exceeding 1.5 m in width or 10 m2 1.5 m, including getting out the excava lead of 50 m. Medium Rock (blasting prohibited) New Data derived from Item No.2.9.3	on plan), i ated soil a	including nd dispo	dressing o sal of surp	f sides and ram	nming of bo	ttoms, lift up to
	D	301.875	cum	1106.34	333976.39	1547.00	467000.63
4	 2.7.3 Earth work in excavation by mechanica 30 cm in depth, 1.5 m in width as well a m and lift up to 1.5 m, disposed earth to 	as 10 sqm	on plan)	including d	isposal of exca	vated earth	n, lead up to 50
5	100.4.1 Excavating in hard rock for trenche measurements and disposing unservio depth 0 m to 1.50m) and providing prot nearby structures(200 Nos. of earth fille (Ref. Item No. 1004 A of T C)	ceable maintection by	terials wi earth fille	thin the int	ial lead of 50m bags during bla	and lift up	oto 1.50m(intial
		120.750	cum	4093.4	494278.05	2547.30	307586.48
6	50.2.25.1 Filling with contractor's own earth (exc exceeding 20 cm in depth, consolidatin lift up to 1.5 m as per direction of site E	ig each de	posited la				•



7	100.8.1						
	Fencing one side of trenches, 1.50 n pole (girth 15cm to 24cm) fixed at 2 (Data Prepared based on PWD SDB	m intervals.		s of 10 cm	plastic caution	tape in ver	rtical casua
		4000.00 0	metre	28.82	115280.00	29.10	116400.0
8	100.14.5 Conveying and laying S&S Centrifug cost of pipes and specials : 300 mm dia Ductile Iron Class K-9 Pi Data derived from 18.72.19 in DAR		Spun) / D	uctile Iron	Pipes conform	ing to IS: 8	3329 excluc
		4830.00 0	metre	214.13	1034247.90	199.55	963826.5
9	18.70.5 Providing push - on-joints to Centrif joints and including the cost of rubb	••••			r Ductile Iron	Pipes inclu	iding testing
	Joints and melouing the cost of tubb	gashet.o		a pipe	C		
	151	800.000	joint	430.68	344544.00	429.30	343440.0
10	18.30.7 Providing flanged joints to double f diameter pipe	800.000	joint D.I pipes	430.68 s and spec	ials, including	testing of	I
	18.30.7 Providing flanged joints to double f diameter pipe	800.000 langed C.I./	joint D.I pipe: atenA	430.68 s and spec 603.77	QUE -	I	joints:300 r
	18.30.7 Providing flanged joints to double fl diameter pipe Ke 18.83.7	800.000 langed C.I./	joint D.I pipe: atenA	430.68 s and spec 603.77	ials, including	testing of	343440.0 joints:300 r 72755.00 34727.50
11	18.30.7 Providing flanged joints to double fl diameter pipe Ke 18.83.7	800.000 langed C.I./ 100.000 saw.300 mr 50.000	joint D.I pipes at Nos n diamete Each Cut to the rec	430.68 s and spec 603.77 er C.I. pipe 671.63	ials, including 60377.00 E 33581.50	testing of 727.55	joints:300 r 72755.0
11	18.30.7 Providing flanged joints to double fl diameter pipe Ke 18.83.7 Labour for cutting C.I. pipe with steel 100.35.5 Testing 300mm DI/CI pipeline with po 300 mm dia	800.000 langed C.I./ 100.000 saw.300 mr 50.000	joint D.I pipes at Nos n diamete Each Cut to the rec	430.68 s and spec 603.77 er C.I. pipe 671.63	ials, including 60377.00 E 33581.50	testing of 727.55	joints:300 r 72755.00
11	18.30.7 Providing flanged joints to double flat diameter pipe 18.83.7 Labour for cutting C.I. pipe with steel 100.35.5 Testing 300mm DI/CI pipeline with poisson mit dia Observed Data derived from item no. 100.31.1.5 "Conveying and fixing C.I. sluice vale etc. excluding the cost of valve (the 200 mm diameter. Class I"	800.000 langed C.I./ 100.000 saw.300 mr 50.000 otable water 1023 of PHE 4830.00 0	joint D.I pipes Nos n diamete Each Cut to the rec ED DATA metre	430.68 s and spec 603.77 er C.I. pipe 671.63 guired test p 57.81	ials, including 60377.00 E 33581.50 pressure. 279222.30 plete with bolt	testing of 727.55 694.55 60.95 s, nuts, rul	joints:300 r 72755.0 34727.5 294388.5
10 11 12 13	18.30.7 Providing flanged joints to double flat diameter pipe 18.83.7 Labour for cutting C.I. pipe with steel 100.35.5 Testing 300mm DI/CI pipeline with point 300 mm dia Observed Data derived from item no. 100.31.1.5 "Conveying and fixing C.I. sluice vale etc. excluding the cost of valve (the	800.000 langed C.I./ 100.000 saw.300 mr 50.000 otable water 1023 of PHE 4830.00 0	joint D.I pipes Nos n diamete Each Cut to the rec ED DATA metre	430.68 s and spec 603.77 er C.I. pipe 671.63 guired test p 57.81	ials, including 60377.00 E 33581.50 pressure. 279222.30 plete with bolt	testing of 727.55 694.55 60.95 s, nuts, rul	joints:300 r 72755.00 34727.50 294388.5

14	100.31.1.7						
	"Conveying and fixing C.I. sluice	•		-			ber insertior
	etc. excluding the cost of valve (th	he tail pieces i	f required	d will be pa	id separately)	:	
	300 mm diameter. Class I"						
	Data derived from item no.18.31.6.						
		2.000	Nos	2708.11	5416.22	2949.60	5899.20
15	100.32.1						
	Conveying and fixing C I Single a	acting Air Valv	e of appr	oved quali	ty with bolts,nu	uts,rubber i	nsertions etc
	excluding the cost of air valve(the	e tail pieces if	required	will be pai	d seperately):		
	25 mm Single acting Air Valve						
	Observed Data derived from item r	no.18.59.of DA	R				
		3.000	Nos	146.63	439.89	146.60	439.80
		10	18.				
16	100.32.3			and an all			
	Conveying and fixing C I Single a			and a second second		uts,rudder i	nsertions etc
	excluding the cost of air valve(the 50 mm Double acting Air Valve	e tall pieces il	required	will be pai	d seperatery).		
	Data derived from item no.18.59.1	of DAR					
				27	A. 8		
	1.0	5.000	Nos	229.21	1146.05	259.35	1296.75
17	18.24						
	Laying in position S & S or flanged	d C.I. special s	uch as te	es, bends,	collars, tapers	and caps e	etc. (excludir
	cost of specials).	V-P					
	K	Kera 26.761	quintal	u 603.91i t	y 16161.24	616.55	16499.49
18	18.67.1						
10	Providing and laying S & S C.I. St	andard specia	ls suitable	e for mech	anical iointing a	as per IS 1:	3382:Upto 30
	mm dia				j		
		4.800	quintal	14708.65	70601.52	14043.50	67408.80
				14700.05			
19	2.8.1						
	Earth work in excavation by mech						
	or drains (not exceeding 1.5 m in						
	bottoms, lift up to 1.5 m, including		ne excava	ated soil ar	nd disposal of a	surplus exc	avated soil a
	directed, within a lead of 50 m.All	I kinds of soil					
		10.891	cum	309.95	3375.67	319.55	3480.22
20	2.9.1						
	Excavation work by mechanical me	eans (Hvdrauli	c excavat	or) / manua	al means in fou	ndation trer	ches or drair
	(not exceeding 1.5 m in width or 1						
	to 1.5 m, including getting out the					-	
	lead of 50 m.Ordinary rock		·				-
		10.891	0.100	550.62	5996.80	738.65	8044.64
		10.091	cum	550.62	0990.00	1 30.05	0044.04

21	4.1.6							
	-	and laying in position ceme - All work up to plinth level: ize)		-	-	-		•
			1.453	cum	7527.06	10936.82	9712.35	14112.04
22	shuttering	and laying in position specifie I, finishing and reinforcemer one aggregate 20 mm nomi	nt - All wo			-	0	
	1		7.832	cum	9483.15	74272.03	11828.25	92638.85
23		orcement for R.C.C work inclute upto plinth levelHard drawn st		ightening	, cutting, be	ending, placing	in position	and binding all
	1		783.200	kilogram	105.23	82416.14	132.00	103382.40
24	-	and shuttering including sti pilasters, butteresses, plinth	-			orm for:Walls	(any thickn	ess) including
	1	101	33.750	sqm	748.62	25265.93	766.40	25866.00
25	13.1.1 12 mm ce	ment plaster of mix:1:4(1 cer	ment : 4 fi	ne sand)				
		Ker	28.350	atsqmA	327.85	V 9294.55	386.35	10953.02
26	-	and laying in position ceme - All work up to plinth level ize)			-			-
			10.000	cum	8340.93	83409.30	10609.70	106097.00
27	-	and shuttering including str etc for mass concrete	utting, et	c. and rei	moval of fo	orm for:Founda	ations, foot	ings, bases of
			40.000	sqm	350.0	14000.00	347.55	13902.00
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
13 A	Appendix A	- (3) - Supply and Laying 250 re-arr			ain from Na f materials	riyanpara to Id	ukki kavala	(balance work
1	100.98.11 Supply of	8 DI K9 Pipe Conforming to IS 8	8329/2000), 250mm	Dia.			
		_	1188.00 0	metre	3616.52	4296425.76	3438.05	4084403.40



2		2020_2021 specials,Tees,Bends,Colla	ars,Tapers et	С.				
			7.450	quintal	20384.0	151860.80	19397.05	144508.02
3	100.98.46 Supply of 200mm.	1 CI Double Flanged Sluice	Valve Confo	rming to I	S 14846 - 2	2000, Sluice Va	alve with Ca	p PN 1.6, Size
			1.000	No	23723.65	23723.65	11794.00	11794.00
4	100.98.46 Supply of 250mm.	2 CI Double Flanged Sluice	Valve Confo	rming to I	S 14846 - 2	2000, Sluice Va	lve with Ca	p PN 1.6, Size
			3.000	No	34361.8	103085.40	18345.20	55035.60
5	100.98.44 Supply of	0 CI Air Valve, Conforming to	o IS 14848 -	2000, Sir	gle Orifice,	Small Orifice	Гуре S1, Si	ze 25mm.
		64	3.000	No	5636.75	16910.25	966.75	2900.25
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
23 A	Appendix A	- (3) - Supply and Laying 2 re-	250mm DI pu -arranging)- (riyanpara to Id	ukki kavala	(balance work
1	sides, ran soil as re ramming, All kinds c	g trenches of required wid nming of bottoms, depth up quired, in layers not exce watering, etc. and dispos of soil No. 2.10.1 of DSR)	o to 1.5 m, in eeding 20 cn	cluding g n in dept	etting out th h, including	ne excavated s g consolidating	oil, and the geach depo	n returning the osited layer by
			943.651	cum	579.85	547176.03	592.25	558877.30
2	sides, ran soil as re ramming, Ordinary l	g trenches of required wid nming of bottoms, depth up quired, in layers not exce watering, etc. and dispos Rock. No. 2.13.1 of DSR)	th for pipes, to to 1.5 m, in peding 20 cn	cables, e cluding g n in dept	tc including etting out th h, including	excavation fo ne excavated s consolidating	r sockets, a oil, and the geach depo	and dressing of n returning the psited layer by
			188.730	cum	842.1	158929.53	1033.20	194995.84

	100.2.2 Excavation work by mech (not exceeding 1.5 m in w				,			
	1.5 m, including getting c		• •	-	-		-	
	lead of 50 m.				·			,
	Medium Rock (blasting pr	ohibited)						
	New Data derived from Ite	em No.2.9.3						
			75.492	cum	1106.34	83519.82	1547.00	116786
4	2.7.3						11	
7	Earth work in excavation	by mechanic:	al means (Hydraulio	revcavator)/ manual mea	ans over are	as (excee
	30 cm in depth, 1.5 m in v	•		•				
	m and lift up to 1.5 m, dis		-	• •	-	•		
		·	25.164	cum	1248.58	31419.27	1781.60	44832.
	400.4.4		20.104	oum	1240.00	01410.27	1701.00	44002.
5	100.4.1		Sec. A.		In the second			
	Excavating in hard rock		Contraction of the second	•			•	
	measurements and dispo	-						•
	depth 0 m to 1.50m) and						sing to avo	na aamage
	nearby structures(200 No		eu cemen	bags for	TUMS DIas	ung)		
	(Ref. Item No. 1004 A of T	10)	169	1.00	1			
			25.164	cum	4093.4	103006.32	2547.30	64100.
6	50.2.25.1							
	Filling with contractor's ov	wn earth (ex	cluding ro	ck) in trei	nches, plint	h, sides of fou	ndations etc	c. in layers
	exceeding 20 cm in depth							•
	lift up to 1.5 m as per dire						3 ,	
		P	10,000		5/8 85	5/88 50	342.40	3424 (
		Γ	10.000	cum	548.85	5488.50	342.40	3424.0
7	100.8.1	P		cum				
7	Fencing one side of trenc		height with	cum				
7	Fencing one side of trenc pole (girth 15cm to 24cm)) fixed at 2 m	height with intervals.	cum n two row				
7	Fencing one side of trenc) fixed at 2 m	height with intervals.	cum n two row				
7	Fencing one side of trenc pole (girth 15cm to 24cm)) fixed at 2 m	height with intervals.	cum n two row				3424.0 tical casua 23280.0
	Fencing one side of trenc pole (girth 15cm to 24cm) (Data Prepared based on) fixed at 2 m	height with intervals. Item No.10	cum a two row	s of 10 cm	plastic caution	tape in ver	tical casua
7	Fencing one side of trend pole (girth 15cm to 24cm) (Data Prepared based on 100.14.4) fixed at 2 m PWD SDB -	height with intervals. Item No.10 800.000	cum two row 009) metre	s of 10 cm 28.82	plastic caution 23056.00	tape in ver	tical casua 23280.
	Fencing one side of trend pole (girth 15cm to 24cm) (Data Prepared based on 100.14.4 Conveying and laying S8) fixed at 2 m PWD SDB -	height with intervals. Item No.10 800.000	cum two row 009) metre	s of 10 cm 28.82	plastic caution 23056.00	tape in ver	tical casua 23280.0
	Fencing one side of trend pole (girth 15cm to 24cm) (Data Prepared based on 100.14.4 Conveying and laying S8 cost of pipes and special) fixed at 2 m PWD SDB - S Centrifuga	height with intervals. Item No.10 800.000 ally Cast (S	cum two row 009) metre	s of 10 cm 28.82	plastic caution 23056.00	tape in ver	tical casua 23280.0
	Fencing one side of trend pole (girth 15cm to 24cm) (Data Prepared based on 100.14.4 Conveying and laying S8 cost of pipes and special 250 mm dia Ductile Iron C) fixed at 2 m PWD SDB - S Centrifuga s : Class K-9 Pipe	height with intervals. Item No.10 800.000 ally Cast (S	cum two row 009) metre	s of 10 cm 28.82	plastic caution 23056.00	tape in ver	tical casua 23280.
	Fencing one side of trend pole (girth 15cm to 24cm) (Data Prepared based on 100.14.4 Conveying and laying S8 cost of pipes and special) fixed at 2 m PWD SDB - S Centrifuga s : Class K-9 Pipe	height with intervals. Item No.10 800.000 ally Cast (S	cum two row 009) metre	s of 10 cm 28.82	plastic caution 23056.00	tape in ver	tical casua 23280.
	Fencing one side of trend pole (girth 15cm to 24cm) (Data Prepared based on 100.14.4 Conveying and laying S8 cost of pipes and special 250 mm dia Ductile Iron C) fixed at 2 m PWD SDB - S Centrifuga s : Class K-9 Pipe	height with intervals. Item No.10 800.000 ally Cast (sees 1165.00	cum two row 009) metre	s of 10 cm 28.82	plastic caution 23056.00	tape in ver	tical casua 23280.0 329 exclu
8	Fencing one side of trend pole (girth 15cm to 24cm) (Data Prepared based on 100.14.4 Conveying and laying S8 cost of pipes and special 250 mm dia Ductile Iron C Data derived from 18.72.1) fixed at 2 m PWD SDB - S Centrifuga s : Class K-9 Pipe	height with intervals. Item No.10 800.000 ally Cast (S	cum n two row 009) metre Spun) / D	s of 10 cm 28.82 Ductile Iron	plastic caution 23056.00 Pipes conform	tape in ver 29.10 ing to IS: 8	tical casua 23280.0 329 exclu
	Fencing one side of trend pole (girth 15cm to 24cm) (Data Prepared based on 100.14.4 Conveying and laying S& cost of pipes and special 250 mm dia Ductile Iron C Data derived from 18.72.1) fixed at 2 m PWD SDB - &S Centrifuga Is : Class K-9 Pipe I8 in DAR	height with intervals. Item No.10 800.000 ally Cast (\$ es 1165.00 0	cum two row 009) metre Spun) / D metre	s of 10 cm 28.82 Ductile Iron 170.19	plastic caution 23056.00 Pipes conform 198271.35	tape in ver 29.10 ing to IS: 8	tical casua 23280.0 329 exclu 184477.
8	Fencing one side of trend pole (girth 15cm to 24cm) (Data Prepared based on 100.14.4 Conveying and laying S8 cost of pipes and special 250 mm dia Ductile Iron C Data derived from 18.72.1 18.70.4 Providing push - on-joint) fixed at 2 m PWD SDB - S Centrifuga s : Class K-9 Pipe 8 in DAR	height with intervals. Item No.10 800.000 ally Cast (Ses 1165.00 0 gally (Spu	cum n two row 009) metre Spun) / D metre	s of 10 cm 28.82 Ductile Iron 170.19	plastic caution 23056.00 Pipes conform 198271.35	tape in ver 29.10 ing to IS: 8	tical casua 23280.0 329 exclu 184477.
8	Fencing one side of trend pole (girth 15cm to 24cm) (Data Prepared based on 100.14.4 Conveying and laying S& cost of pipes and special 250 mm dia Ductile Iron C Data derived from 18.72.1) fixed at 2 m PWD SDB - S Centrifuga s : Class K-9 Pipe 8 in DAR	height with intervals. Item No.10 800.000 ally Cast (Ses 1165.00 0 gally (Spu	cum n two row 009) metre Spun) / D metre	s of 10 cm 28.82 Ductile Iron 170.19	plastic caution 23056.00 Pipes conform 198271.35	tape in ver 29.10 ing to IS: 8	tical casua 23280.0 329 exclu 184477.
8	Fencing one side of trend pole (girth 15cm to 24cm) (Data Prepared based on 100.14.4 Conveying and laying S8 cost of pipes and special 250 mm dia Ductile Iron C Data derived from 18.72.1 18.70.4 Providing push - on-joint) fixed at 2 m PWD SDB - S Centrifuga s : Class K-9 Pipe 8 in DAR	height with intervals. Item No.10 800.000 ally Cast (Ses 1165.00 0 gally (Spu	cum n two row 009) metre Spun) / D metre	s of 10 cm 28.82 Ductile Iron 170.19	plastic caution 23056.00 Pipes conform 198271.35	tape in ver 29.10 ing to IS: 8	tical casua 23280.0 329 exclu 184477 ding testir
9	Fencing one side of trend pole (girth 15cm to 24cm) (Data Prepared based on 100.14.4 Conveying and laying S8 cost of pipes and special 250 mm dia Ductile Iron C Data derived from 18.72.1 18.70.4 Providing push - on-joint) fixed at 2 m PWD SDB - S Centrifuga s : Class K-9 Pipe 8 in DAR	height with intervals. Item No.10 800.000 ally Cast (\$ es 1165.00 0 gally (Spu r gasket:2	cum n two row 009) metre Spun) / D metre	s of 10 cm 28.82 Puctile Iron 170.19 ron Pipes c ia pipes	plastic caution 23056.00 Pipes conform 198271.35 or Ductile Iron	tape in ver 29.10 ing to IS: 8 158.35 Pipes inclu	tical casua 23280.0 329 exclu 184477.

PRICE

10	18.30.6 Providing flanged joints to double flar diameter pipe	nged C.I./	D.I pipes	s and spec	ials, including	testing of	joints:250 mm
		25.000	Nos	595.56	14889.00	727.55	18188.75
11	18.83.6 Labour for cutting C.I. pipe with steel sa	w.250 mn	n diamete	r C.I. pipe			
		15.000	Each Cut	559.11	8386.65	578.20	8673.00
12	100.35.4 Testing 250mm DI/CI pipeline with pota 250 mm dia Observed Data derived from item no.10			uired test p	pressure .		
		1165.00 0	metre	52.99	61733.35	55.60	64774.00
13	100.31.1.5 "Conveying and fixing C.I. sluice valve etc. excluding the cost of valve (the ta 200 mm diameter. Class I" Data derived from item no.18.31.4.1 of	il pieces i					bber insertion
		1.000	Nos	1625.9	1625.90	1770.80	1770.80
14	100.31.1.6 "Conveying and fixing C.I. sluice valve etc. excluding the cost of valve (the ta 250 mm diameter. Class I" Data derived from item no.18.31.5.1 of	il pieces i		_	-		ber insertion
		3.000	Nos	2304.82	6914.46	2564.25	7692.75
15	100.32.1 Conveying and fixing C I Single acting excluding the cost of air valve(the tail 25 mm Single acting Air Valve Observed Data derived from item no.18	pieces if	required		•	uts,rubber i 146.60	nsertions etc
16	18.24 Laying in position S & S or flanged C.I. cost of specials).		Nos uch as te	I I		11	
		7.450	quintal	603.91	4499.13	616.55	4593.30
17	18.67.1 Providing and laying S & S C.I. Standa mm dia	1	<u> </u>				



	1	1.440	quintal	14708.65	21180.46	14043.50	20222.64
18	2.8.1 Earth work in excavation by mechar or drains (not exceeding 1.5 m in v bottoms, lift up to 1.5 m, including g directed, within a lead of 50 m.All k	width or 10 getting out tl	sqm on p	olan), inclue	ding dressing	of sides ar	nd ramming
		10.891	cum	309.95	3375.67	319.55	3480.22
19	2.9.1 Excavation work by mechanical mea (not exceeding 1.5 m in width or 10 to 1.5 m, including getting out the ex lead of 50 m.Ordinary rock	sqm on plan), includin	g dressing	of sides and r	amming of I	oottoms, lift
		10.891	cum	550.62	5996.80	738.65	8044.64
	Providing and laying in position ce shuttering - All work up to plinth lev				U U		•
	nominal size)	164		Contraction of the second			
21	5.1.2	1.453	cum	7527.06	10936.82	9712.35	
21	194	cified grade o nent - All wo ominal size	of reinforce	ed cement of plinth leve	concrete, exclu l;1:1:5:3 (1 ce	uding the co ement 1.5 c	st of centerir oarse sand
21	5.1.2 Providing and laying in position spec shuttering, finishing and reinforcen graded stone aggregate 20 mm no	cified grade onent - All wo	of reinforce	ed cement of	concrete, exclu	uding the co	st of centerir oarse sand
	5.1.2 Providing and laying in position spec shuttering, finishing and reinforcen	cified grade of nent - All wo ominal size 7.832 strutting, et	of reinforce ork up to cum cc. and re	ed cement of plinth leve 9483.15 moval of fo	concrete, exclu l;1:1:5:3 (1 ce 74272.03	uding the co ement 1.5 c 11828.25	st of centerin oarse sand 92638.85
	5.1.2 Providing and laying in position spec shuttering, finishing and reinforcen graded stone aggregate 20 mm no 5.9.2 Centering and shuttering including	cified grade of nent - All wo ominal size 7.832 strutting, et	of reinforce ork up to cum cc. and re	ed cement of plinth leve 9483.15 moval of fo	concrete, exclu l;1:1:5:3 (1 ce 74272.03	uding the co ement 1.5 c 11828.25	st of centerir oarse sand 92638.85 ess) includi
22	5.1.2 Providing and laying in position spec shuttering, finishing and reinforcen graded stone aggregate 20 mm no 5.9.2 Centering and shuttering including	cified grade of nent - All wo ominal size 7.832 strutting, et nth and strin 33.750 ncluding stra	of reinforce ork up to cum cc. and re ng course sqm	ed cement of plinth leve 9483.15 moval of for es etc. 748.62	concrete, exclu k1:1:5:3 (1 ce 74272.03 form for:Walls 25265.93	uding the co ement 1.5 c 11828.25 (any thickn 766.40	st of centerir oarse sand 92638.85 ess) includir 25866.00
22	 5.1.2 Providing and laying in position spects shuttering, finishing and reinforcent graded stone aggregate 20 mm not store aggrega	cified grade of nent - All wo ominal size 7.832 strutting, et nth and strin 33.750 ncluding stra n steel wire	of reinforce ork up to cum cc. and re ng course sqm	ed cement of plinth leve 9483.15 moval of for es etc. 748.62	concrete, exclu k1:1:5:3 (1 ce 74272.03 form for:Walls 25265.93	uding the co ement 1.5 c 11828.25 (any thickn 766.40	st of centerir oarse sand 92638.85 ess) includir 25866.00 and binding
22	 5.1.2 Providing and laying in position spects shuttering, finishing and reinforcent graded stone aggregate 20 mm not store aggrega	cified grade of nent - All wo ominal size 7.832 strutting, et nth and strin 33.750 ncluding stra n steel wire 783.200	of reinforce ork up to cum cc. and re ng course sqm ightening kilogram	ed cement of plinth leve 9483.15 moval of for es etc. 748.62 , cutting, be	concrete, exclu l;1:1:5:3 (1 ce 74272.03 orm for:Walls 25265.93 ending, placing	uding the co ement 1.5 c 11828.25 (any thickn 766.40	st of centerir oarse sand 92638.85 ess) includir 25866.00 and binding
21 22 23 24	 5.1.2 Providing and laying in position spec shuttering, finishing and reinforcen graded stone aggregate 20 mm no 5.9.2 Centering and shuttering including attached pilasters, butteresses, plin 5.22.2 Steel reinforcement for R.C.C work in complete upto plinth levelHard drawn 13.1.1 	cified grade of nent - All wo ominal size 7.832 strutting, et nth and strin 33.750 ncluding stra n steel wire 783.200	of reinforce ork up to cum cc. and re ng course sqm ightening kilogram	ed cement of plinth leve 9483.15 moval of for es etc. 748.62 , cutting, be	concrete, exclu l;1:1:5:3 (1 ce 74272.03 orm for:Walls 25265.93 ending, placing	uding the co ement 1.5 c 11828.25 (any thickn 766.40	oarse sand 92638.85 ess) includii 25866.00



					1					
	1				5.000	cum	8340.93	41704.65	10609.70	53048.50
26	5.9.1 Centering columns,		-	-	rutting, et	c. and re	moval of fo	orm for:Found	ations, foot	ings, bases
					20.000	sqm	350.0	7000.00	347.55	6951.00
SI No	Spec		Descriptic	n	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
	24 Apper	ndix B - (′	1) - Impro	ovements a	t Kalthotty	sump- (a	a) patch wor	k, painting and	I providing to	oilet etc.
1		ured at a	height of	1 m above	-	-		rood, trees and rubbish up to a		• •
					40.000	sqm	15.43	617.20	15.60	624.00
	bottoms,	lift up to	1.5 m, in		tting out th			ding dressing d disposal of		•
				2.20	1	1000				
3	15.7.4			12	41.012	cum	309.95	12711.67	319.55	13105.38
3	Demolish	-		•	y mechan thin 50 me	ical mea	ns includin I as per diri	g stacking of ection of Engi	serviceable neer-in-Cha	irge.In ceme
3	Demolish disposal d	-		•	y mechan	ical mea	ns includin	g stacking of	serviceable	e material ar
3	Demolish disposal o mortar 15.2.1 Demolishi	ng cemer	iceable r	te manually	y mechan thin 50 me 0.500 y / by mecl	ical mea etres leac cum nanical m	ns includin l as per dir 1805.99 neans incluc	g stacking of ection of Engi	serviceable neer-in-Cha 1829.35 f material wi	e material ar irge.In ceme 914.68
	Demolish disposal o mortar 15.2.1 Demolishi	ng cemer	iceable r	te manually	y mechan thin 50 me 0.500 y / by mecl	ical mea etres leac cum nanical m	ns includin l as per dir 1805.99 neans incluc	g stacking of ection of Engin 903.00 ling disposal o	serviceable neer-in-Cha 1829.35 f material wi	e material an irge.In ceme 914.68 ithin 50 metre
	Demolish disposal o mortar 15.2.1 Demolishi lead as pe 7.1.1 Random r 1:6:12 (1	ng cemer er directio	iceable r nt concre n of Eng asonry wi : 6 coar	te manually neer - in-C	y mechan thin 50 me 0.500 y / by mech harge.Non 0.225 ne in foun 12 gradec 6 coarse	ical mea etres leac cum nanical m ninal con cum dation an dation ar stone a sand)	ns includin d as per dire 1805.99 neans includ crete 1:3:6 d 2134.72 nd plinth inc aggregate 2	g stacking of ection of Engin 903.00 ling disposal o or richer mix (i 480.31	serviceable neer-in-Cha 1829.35 f material wi /c equivalen 2162.25 g up with ce al size) up	e material ar irge.In ceme 914.68 ithin 50 metre t design mix) 486.51 ment concre to plinth lev
4	Demolish disposal o mortar 15.2.1 Demolishi lead as pe 7.1.1 Random r 1:6:12 (1	ng cemer er directio	iceable r nt concre n of Eng asonry wi : 6 coar	te manually ineer - in-C	y mechan thin 50 me 0.500 y / by mech harge.Non 0.225 ne in foun 12 gradec	ical mea etres leac cum nanical m ninal con cum dation ar	ns includin d as per dire 1805.99 heans includ crete 1:3:6 o 2134.72	g stacking of ection of Engin 903.00 ling disposal o or richer mix (i, 480.31	serviceable neer-in-Cha 1829.35 f material wi /c equivalen 2162.25	e material ar irge.In ceme 914.68 ithin 50 metre t design mix) 486.51 ment concre
4	Demolish disposal o mortar 15.2.1 Demolishi lead as pe 7.1.1 Random r 1:6:12 (1 with:Cem 4.1.5 Providing	ng cemer er directio rubble ma cement ent morta and layi g - All wo	iceable r nt concre n of Eng asonry wi : 6 coar ar 1:6 (1 ng in po	te manually te manually ineer - in-C th hard sto se sand : cement :	y mechan thin 50 me 0.500 y / by mech harge.Non 0.225 ne in foun 12 gradec 6 coarse 5.539 ent concre	ical mea etres leac cum nanical m ninal con cum dation ar dation ar sand) cum	ns includin d as per dire 1805.99 heans includ crete 1:3:6 d 2134.72 hd plinth inc aggregate 2 7520.41 ecified grad	g stacking of ection of Engin 903.00 ling disposal o or richer mix (i 480.31	serviceable neer-in-Cha 1829.35 f material wi /c equivalen 2162.25 g up with ce al size) up 8030.80	e material ar irge.In ceme 914.68 ithin 50 metre t design mix) 486.51 ment concre to plinth lev 44482.60 centering ar

7	50.6.1.3 Solid block masonry using pre cast sol confirming to IS 2185 Part I of 1979 for and above in: CM 1:6 (1 cement :6 coa	super stru	icture abo	ove floor tw			
		4.739	cum	7784.73	36891.84	8495.10	40258.28
8	10.5.2 Providing and fixing 1 mm thick M.S. sl plates at the junctions and corners, a approved steel primer.Using flats 302	all necess	ary fitting	gs complet	x6 mm angle ir e, including at	oplying a p	•
		1.441	sqm	5256.35	7574.40	6114.35	8810.78
9	5.1.3 Providing and laying in position specifie shuttering, finishing and reinforcement stone aggregate 20 mm nominal size)					-	•
		0.814	cum	8964.72	7297.28	11245.05	9153.47
10	5.2.2 Reinforced cement concrete work in was string courses, fillets, columns, pillars, cost of centering, shuttering, finishing a aggregate 20 mm nominal size)	piers, abu	utments, p cement :1	oosts and s	struts etc. up to ement : 1.5 coa	t floor five	level excluding
11	5.22.6 Steel reinforcement for R.C.C work incl complete upto plinth levelThermo - Mer		ightening	, cutting, be	ending, placing	-	and binding all
		601.811	kilogram	102.61	61751.83	120.80	72698.77
12	5.9.1 Centering and shuttering including st columns, etc for mass concrete				orm for:Founda	ations, foot	ings, bases of
		8.000	sqm	350.0	2800.00	347.55	2780.40
13	5.9.3 Centering and shuttering including strubalconies and access platform	utting, etc	. and rem	oval of for	m for:Suspend	ed floors, r	oofs, landings,
		29.311	sqm	851.52	24958.90	907.25	26592.40
14	5.9.5 Centering and shuttering including stru bressumers and cantilevers	tting, etc.	and remo	val of form	for:Lintels, bea	ams, plinth	beams, girders
		17.740	sqm	678.28	12032.69	731.35	12974.15



15	5.9.6 Centering and shuttering including str	utting, etc.	and remo	oval of form	n for:Columns,	Pillars, Pie	ers, Abutments
	Posts and Struts						
	-	9.000	sqm	901.48	8113.32	910.10	8190.90
16	13.7.1						
10	12 mm cement plaster finished with a f	loating coa	at of neat	cement of	mix:1:3 (1 cem	ent : 3 fine	sand)
	1	14.081	sqm	418.79	5896.98	486.80	6854.63
17	13.2.1 15 mm cement plaster on the rough sid	de of single	e or half b	rick wall of	mix:1:4 (1 cem	ent :4 fine :	sand)
		68.840	sqm	378.31	26042.86	448.15	30850.65
18	13.44.1 Finishing walls with water proofing ce 3.84 kg/10 sqm)	ment paint	of require	ed shade:N	New work (Two	or more co	oats applied @
		328.177	sqm	112.09	36785.36	121.20	39775.05
	Finishing with Deluxe Multi surface pa specifications:Painting Steel work with applied @ 0.90 ltr/10 sqm over an ur manufacture	n Deluxe M	Iulti Surfa	ce Paint to	o give an even	shade. Tw	o or more coa
		0.641	sqm	154.62	99.11	157.30	100.83
20	11.21.1.1 Ket	ala W	ater A	uthorit	V		
	Providing and fixing 10 mm thick acid / or alkali resisting mortar bedding, ar complete as per the direction of Engi proof cement : 4 coarse sand)Acid ar	nd joints fill neer-in-Ch	ed with a arge.In fl	cid and /or ooring on a	alkali resisting	cement as	s per IS : 4457
		3.750	sqm	1836.85	6888.19	2098.50	7869.38
21	11.21.2.1 Providing and fixing 10 mm thick acid / or alkali resisting mortar bedding, ar complete as per the direction of Engin cement : 4 coarse sand)Acid and alka	nd joints fill eer-in-Cha	ed with a arge.In da	cid and /or	alkali resisting	cement as	s per IS : 4457
		18.240	sqm	1975.33	36030.02	2235.80	40780.99
22	13.71 Lettering with black Japan pint of appre	1					
		1500.00 0	Letterxc m ht	5.8	8700.00	5.85	8775.00



23	50.10.1						
	Steel work in built up G I tubular (ro			-		,	
	cutting, hoisting, fixing in position and a			oat of appi	oved steel prin	ner, includir	ng welding ar
	bolted with special shaped washers et						
		152.460	kg	198.21	30219.10	201.90	30781.67
24	13.48.2	_					
	Finishing with Deluxe Multi surface pa	•			0.	•	
	specifications:Painting wood work w applied @ 0.90 ltr/10 sqm over an ur				•		
	manufacture			appined C			
		7.968	sqm	160.0	1274.88	152.00	1211.14
25	14.75		- 041				
	Repair to plaster of thickness 12mm	to 20 mm	in patche	s of area	2.5 sqm and u	nder,includ	ing cutting t
	patch in proper shape, raking out joir	nts and pre	eparing p	lasteringth	e wall surface	with white	cement base
	polymer modified self curing mortar	, including	gdisposal	of rubbis	h, all complete	e as per th	ne direction
	Engineer-In-Charge.	11.3	6	65			
		50.000	sqm	629.03	31451.50	765.20	38260.00
26	od41173/2020_2021						
	Providing sanitary facilities including	500 ltr wat	ter tank, F	VC septic	tank,water clo	set,wash b	asin and oth
	plumbing works and electrical works	etc.comple	ete.				
		1000				1	
	Ker	ala.w	ater A	uthorit 46398.41	y 46398.41	46562.55	46562.55
SI No	Spec Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
29	9 Appendix B - (1) - Improvements at k	althotty su	ımp- (b) C	Construction	n of retaining w	all and com	pound wall
1	2.31						
	Clearing jungle including uprooting of	rank veget	ation, gra	ss, brush v	vood, trees and	l saplings o	f girth up to :
	cm measured at a height of 1 m above	e ground le	evel and r	emoval of	rubbish up to a	distance c	of 50 m outsi
	the periphery of the area cleared		l	1		1	
		330.000	sqm	15.43	5091.90	15.60	5148.00
2	2.8.1						
	Earth work in excavation by mechanic	al means	(Hydraulio	c excavato	r) /manual mea	ins in found	lation trench
	or drains (not exceeding 1.5 m in wi		· ·	,			-
	bottoms, lift up to 1.5 m, including ge	-	ne excava	ated soil ar	nd disposal of	surplus exc	avated soil
	directed, within a lead of 50 m.All kin	ds of soil					
		70.620	cum	309.95	21888.67	319.55	22566.62
3	4.1.5						
	Providing and laying in position cem			-	-		-
	shuttering - All work up to plinth leve	1:1:3:6 (1 a	cement :	3 coarse s	and : 6 gradec	l stone agg	regate 20 m
	nominal size)						



4	7.1.1								
-	Random ru 1:6:12 (1	ubble masonry with cement : 6 coars	e sand : 12	gradec	stone a	•			
	with:Ceme	ent mortar 1:6 (1			sand)				
	1			93.283	cum	7520.41	701526.41	8030.80	749137.1
5	string cour cost of cer	l cement concrete ses, fillets, columi tering, shuttering, 20mm nominal si	ns, pillars, pi finishing and	iers, abu	itments, p	oosts and s	truts etc. up to	ot floor five l	evel exclud
				6.602	cum	11433.93	75486.81	13791.85	91053.79
6		prcement for R.C.0 pto plinth levelThe		-	-			-	and binding
	•			396 002	kilogram	102.61	40633.77	120.80	47837.04
7	50.2.25.1 Filling with	contractor's own	61	Là.	115	22	PT.	11	
7	Filling with exceeding	contractor's own 20 cm in depth, co 5 m as per directio	earth (exclu onsolidating on of site En	uding roo each de	ck) in tren posited la	iches, plint	h, sides of fou	ndations et	c. in layers ı
7	Filling with exceeding	20 cm in depth, co	earth (exclu onsolidating on of site En	uding roo each de	ck) in tren posited la	iches, plint	h, sides of fou	ndations et	c. in layers r up to 50 m a
8	Filling with exceeding lift up to 1. 50.6.1.3 Solid block confirming	20 cm in depth, co	earth (exclu onsolidating on of site En Kera Kera re cast solid of 1979 for su	uding roo each de gineer-ir 66.000 blocks (uper stru	ck) in tren posited la n-charge cum Factory n acture abc	nches, plint ayer by ram 548.85 nade) of siz	h, sides of fou nming and wate 36224.10 ze 40x20x20cn	ndations et ering, lead u 342.40	c. in layers r up to 50 m a 22598.40 t available s
	Filling with exceeding lift up to 1. 50.6.1.3 Solid block confirming	20 cm in depth, cd 5 m as per direction a masonry using per to IS 2185 Part 1 c	earth (exclu onsolidating on of site En Kera Recast solid of 1979 for su nent :6 coars	uding roo each de gineer-ir 66.000 blocks (uper stru	ck) in tren posited la n-charge cum Factory n acture abc	nches, plint ayer by ram 548.85 nade) of siz	h, sides of fou nming and wate 36224.10 ze 40x20x20cn	ndations et ering, lead u 342.40	c. in layers i up to 50 m a 22598.40 t available s hickness 20
	Filling with exceeding lift up to 1. 50.6.1.3 Solid block confirming and above	20 cm in depth, cd 5 m as per direction a masonry using per to IS 2185 Part 1 c	earth (exclu onsolidating on of site En- Kera re cast solid of 1979 for su nent :6 coars	uding roo each de gineer-ir 66.000 blocks (uper stru se sand) 20.401	ck) in tren posited la n-charge tcum Factory n icture abc etc comp cum	aches, plint ayer by ram 548.85 made) of siz ove floor two lete 7784.73	h, sides of fou aming and wate 36224.10 2e 40x20x20cm o level up to flo 158816.28	ndations et ering, lead u 342.40 n or nearest por V level th 8495.10	c. in layers in up to 50 m a 22598.40 t available s hickness 20 173308.5
8	Filling with exceeding lift up to 1. 50.6.1.3 Solid block confirming and above	20 cm in depth, cd 5 m as per direction a masonry using put to IS 2185 Part 1 c in: CM 1:6 (1 cen	earth (exclu onsolidating on of site En- Kera re cast solid of 1979 for su nent :6 coars	uding roo each de gineer-ir 66.000 blocks (uper stru se sand) 20.401	ck) in tren posited la n-charge tcum Factory n icture abc etc comp cum	aches, plint ayer by ram 548.85 made) of siz ove floor two lete 7784.73	h, sides of fou aming and wate 36224.10 2e 40x20x20cm o level up to flo 158816.28	ndations et ering, lead u 342.40 n or nearest por V level th 8495.10	c. in layers r up to 50 m a 22598.40 t available si hickness 200 173308.50 sand)
8	Filling with exceeding lift up to 1. 50.6.1.3 Solid block confirming and above 13.7.2 12 mm cer 50.10.1 Steel work cutting, ho	20 cm in depth, cd 5 m as per direction a masonry using put to IS 2185 Part 1 c in: CM 1:6 (1 cen	earth (excluonsolidating on of site English (erg) on of site English (erg) on of site English (erg) of the solid of 1979 for sument :6 coarse ed with a float (rour ition and appression of the solid of the sol	uding roo each de gineer-ir 66.000 blocks (uper stru se sand) 20.401 ating coa 206.400 nd, squa plying a	ck) in tren posited la n-charge Cum Factory n acture abo etc comp cum at of neat of sqm	aches, plint ayer by ram 548.85 nade) of siz ove floor two lete 7784.73 cement of r 403.29	h, sides of fou ming and wate 36224.10 2e 40x20x20cm o level up to flo 158816.28 mix:1:4 (1 cem 83239.06	ndations et ering, lead u 342.40 n or nearest por V level th 8495.10 hent : 4 fine 468.30 c.) trusses	c. in layers r up to 50 m a 22598.40 t available si hickness 200 173308.5 sand) 96657.12 etc., includi
8	Filling with exceeding lift up to 1. 50.6.1.3 Solid block confirming and above 13.7.2 12 mm cer 50.10.1 Steel work cutting, ho	20 cm in depth, ca 5 m as per direction 5 m as per direction 5 m asonry using per to IS 2185 Part I of in: CM 1:6 (1 cent nent plaster finisher s in built up G I tu isting,fixing in pos	earth (excluonsolidating on of site Entropy Keral Dest solid of 1979 for sum nent :6 coars ed with a floa	uding roo each de gineer-ir 66.000 blocks (uper stru se sand) 20.401 ating coa 206.400 nd, squa plying a	ck) in tren posited la n-charge Cum Factory n acture abo etc comp cum at of neat of sqm	aches, plint ayer by ram 548.85 nade) of siz ove floor two lete 7784.73 cement of r 403.29	h, sides of fou ming and wate 36224.10 2e 40x20x20cm o level up to flo 158816.28 mix:1:4 (1 cem 83239.06	ndations et ering, lead u 342.40 n or nearest por V level th 8495.10 hent : 4 fine 468.30 c.) trusses	c. in layers r up to 50 m a 22598.40 t available si hickness 200 173308.54 sand) 96657.12 etc., includi

	2.31 Clearing jungle including uprooting	of rank vegeta	ation, gra	iss, brush w	ood, trees and	d saplings of	f girth up to
	cm measured at a height of 1 m at the periphery of the area cleared	pove ground le	vel and i	removal of r	ubbish up to a	a distance o	f 50 m outs
		85.000	sqm	15.43	1311.55	15.60	1326.00
2	2.8.1						
	Earth work in excavation by mecha or drains (not exceeding 1.5 m in bottoms, lift up to 1.5 m, including directed, within a lead of 50 m.All	n width or 10 s getting out th	sqm on p	olan), includ	ding dressing	of sides an	d ramming
		23.520	cum	309.95	7290.02	319.55	7515.8
3	4.1.5 Providing and laying in position of shuttering - All work up to plinth lo nominal size)		1		-		-
	6	3.920	cum	7690.32	30146.05	9884.65	38747.8
	concrete to site of laying but exclud	ding the cost of	f centerir	ng, shutterin	g, finishing an	d reinforcen	nent, includ
	concrete to site of laying but exclude admixtures in recommended prop workability without impairing stren content considered in this item is recoverable separately.All work upt	ding the cost of ortions as per gth and durabi 2 330 kg/ cum.	f centerin IS: 9103 ility as pe	ng, shutterin 3 to acceler er direction	g, finishing an ate, retard se of Engineer -	d reinforcen tting of cond in-charge. N	nent, inclue crete, impr Note:- Cem
	admixtures in recommended prop workability without impairing stren content considered in this item is @	ding the cost of ortions as per gth and durabi 2 330 kg/ cum.	f centerin IS: 9103 ility as pe	ng, shutterin 3 to acceler er direction	g, finishing an ate, retard se of Engineer -	d reinforcen tting of cond in-charge. N	nent, incluc crete, impr Note:- Cerr x is payable
5	admixtures in recommended prop workability without impairing stren content considered in this item is @	ding the cost of ortions as per gth and durabi 2 330 kg/ cum. to plinth level 6.032 chine batched rk, using cemer ding the cost of ortions as per gth and durabi 2 330 kg/ cum. ove plinth level	f centerir IS: 9103 ility as per Excess cum and mac nt conter f centerir IS: 9103 ility as per Excess upto floo	hg, shutterin to acceler er direction or less ceme 9825,93 hine mixed ht as per app ng, shutterin to acceler er direction or less ceme or V level	g, finishing an ate, retard se of Engineer - ent used as pe 59270.01 design mix M- proved design g, finishing an ate, retard se of Engineer - ent used as pe	id reinforcen tting of cond in-charge. N er design miz 12022.00 25 grade ce mix, includi id reinforcen tting of cond in-charge. N er design miz	crete, impr Note:- Cem x is payable 72516.7 ment conc ng pumpin nent, incluc crete, impr Note:- Cem x is payable
	admixtures in recommended prop workability without impairing stren content considered in this item is @ recoverable separately.All work upt 5.33.2 Providing and laying in position ma for reinforced cement concrete wor concrete to site of laying but exclud admixtures in recommended prop workability without impairing stren content considered in this item is @ recoverable separately.All work about	ding the cost of ortions as per gth and durabi 0 330 kg/ cum. to plinth level 6.032 chine batched rk, using ceme ding the cost of ortions as per gth and durabi 0 330 kg/ cum.	f centerir IS: 9103 ility as per Excess cum and mac nt conterir IS: 9103 ility as per Excess	hine mixed by shutterin ber direction or less ceme 9825,93 bhine mixed bit as per app big, shutterin bit acceler ber direction or less ceme	g, finishing an ate, retard se of Engineer - ent used as pe 59270.01 design mix M- proved design g, finishing an ate, retard se of Engineer -	d reinforcen tting of cond in-charge. N er design miz 12022.00 25 grade ce mix, includi id reinforcen tting of cond in-charge. N	ment, incluc crete, impr Note:- Cem x is payable 72516.7 ment conce ng pumpin nent, incluc crete, impr Note:- Cem
5	admixtures in recommended prop workability without impairing stren content considered in this item is (a) recoverable separately.All work upt 5.33.2 Providing and laying in position ma for reinforced cement concrete wor concrete to site of laying but exclud admixtures in recommended prop workability without impairing stren content considered in this item is (a)	ding the cost of ortions as per gth and durabi 2 330 kg/ cum. to plinth level 6.032 chine batched rk, using cemer ding the cost of ortions as per gth and durabi 2 330 kg/ cum. ove plinth level 14.280 at all floor leve rable separate	f centerir IS: 9103 ility as per Excess of cum and mac nt conter f centerir IS: 9103 ility as per Excess of upto floor cum els. Note	hine mixed at as per app ag, shutterin or less ceme 9825.93 hine mixed at as per app ag, shutterin b to acceler ar direction or less ceme or V level 11550.4	g, finishing an ate, retard se of Engineer - ent used as pe 59270.01 design mix M- proved design g, finishing an ate, retard se of Engineer - ent used as pe 164939.71 ess cement o grade concret	d reinforcent ting of cond in-charge. Noter design mix 12022.00 25 grade ce mix, includi id reinforcent ting of cond in-charge. Noter design mix 13768.90	nent, incluc crete, impr Note:- Cerr x is payable 72516.7 ment conc ng pumpin nent, incluc crete, impr Note:- Cerr x is payable 196619.8



	complete upto	plinth levelMild steel		Tensile s	teel bars			
			2174.00 0	kg	100.91	219378.34	124.45	270554
8	-	d shuttering including for mass concrete	g strutting, etc	c. and re	moval of fo	orm for:Founda	ations, foot	ings, bas
	1		21.440	sqm	350.0	7504.00	347.55	7451.
9	-	d shuttering including d access platform	strutting, etc.	and rem	noval of for	m for:Suspend	led floors, r	oofs, land
	1		26.000	sqm	851.52	22139.52	907.25	23588
10	-	d shuttering including s nd cantilevers	strutting, etc. a	and remo	val of form	for:Lintels, bea	ams, plinth I	beams, gi
	1	1 A	44.481	sqm	678.28	30170.57	731.35	32531
11	5.9.6 Centering and Posts and Str	d shuttering including	strutting, etc.	and rem	oval of forn	n for:Columns,	Pillars, Pie	rs, Abutm
	1	K	era 62.400	atsqmA	901.48	y 56252.35	910.10	56790
12	13.7.1 12 mm cemer	nt plaster finished with	a floating coa	t of neat	cement of r	mix:1:3(1 cem	ent : 3 fine	sand)
			147.840	sqm	418.79	61913.91	486.80	71968
13	13.44.1 Finishing wal 3.84 kg/10 sc	ls with water proofing Im)	cement paint	of requir	ed shade:N	lew work (Two	or more co	oats appli
			156.560	sqm	112.09	17548.81	121.20	18975
	-	l fixing hand rail of app nilar works, including a	•	-		-	-	iiling, stai
14			452.600	kg	194.18	87885.87	201.15	91040
14				including	g conveyan			
14	taking back o	ater with 5 HP engine f engine and pump, co Prepared based on PH	ost of fuel lub	ricating o		r stores pay of		omplete.
	Bailing out wa taking back o	f engine and pump, co	ost of fuel lub	ricating o		r stores pay of 34513.98	37.00	
	Bailing out wa taking back o	f engine and pump, co	ost of fuel lubr IED SDB - Ite	ricating o m No.10	70			33109

1		steel work riveted, bolte xing in position and app		•			-	cluding cutting
			4019.05 0	kg	125.04	502542.01	155.85	626368.94
2	-	with Epoxy paint (two o ons including appropria						
			81.429	sqm	233.1	18981.10	241.40	19656.96
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
36	Appendix B	8 - (2) - Design and Cons M S	truction of pipelin pipe and connec	-	-		ver- (c) Sup	ply and laying
	of MS plat surface pa	g MS pipes of size 250m te, all fabrication charge aint to give an even sha c MS plates.	es, charges of p	ainting	the steel w	ork with two c	or more coa	at deluxe mu
	-	1.6	42.000	metre	7163.54	300868.68	10098.45	424134.90
2	sides, ram soil as reo ramming, All kinds o	g trenches of required w ming of bottoms, depth quired, in layers not ex- watering, etc. and disp f soil No. 2.10.1 of DSR)	up to 1.5 m, incluceding 20 cm	uding g in dept	etting out th	e excavated s	oil, and the jeach depo	n returning th osited layer b
			7.680	cum	579.85	4453.25	592.25	4548.48
3	U U	3 60 mm (ID) MS pipes for d hire charges of tools e	0		•	, 0	, U	0,
			36.000	No	272.02	9792.72	534.80	19252.80
4	-	50mm (ID) MS pipes for s and welding rods ,all la	-		•		-	
			50.000		4040.04	52040.50	1017 55	00077.50
			50.000	No	1040.81	52040.50	1817.55	90877.50
5	-	; cut and weld edges of 2 f tools etc. complete: Fo	50 mm (ID) MS	pipes c	luring fabric	ation work inc	11	

	100.14.4									
	Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excludin									
	cost of pipes and specials :									
	250 mm dia	Ductile Iron Class K-9 F	Pipes							
	Data derive	d from 18.72.18 in DAR			,		1 1			
			42.000	metre	170.19	7147.98	158.35	6650.70		
7	18.67.1									
	Providing a mm dia	nd laying S & S C.I. Sta	indard specia	ls suitabl	e for mecha	anical jointing	as per IS 13	382:Upto 3		
			0.960	quintal	14708.65	14120.30	14043.50	13481.76		
8	5.1.3									
	Providing a	nd laying in position spe	cified grade o	f reinforce	ed cement o	concrete, exclu	uding the cos	t of centeri		
	shuttering,	inishing and reinforcem	ent - All work	up to plin	th level:1:2	:4 (1 cement	: 2 coarse sa	ind : 4 grac		
	stone aggre	egate 20 mm nominal siz	ze)	10.	ST-					
		6	6.912	cum	8964.72	61964.14	11245.05	77725.79		
9	5.22.6	(k	JAN 1	RAN/	21	2.1	1 1			
0	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding									
	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more									
		The second						75004.0		
			622.800	Kilogram	102.61	63905.51	120.80	75234.24		
10	100.32.2	K	orala W	otor A	uthorit	X 7				
	Conveying and fixing C I Single acting Air Valve of approved quality with bolts, nuts, rubber insertions et									
	-	he cost of air valve(the								
	40 mm Sing	le acting Air Valve Obse	erved Data de	rived fron	n item no.18	3.59.of DAR	1			
			1.000	Nos	184.41	184.41	184.40	184.40		
11	100.31.1.1									
	"Conveying	and fixing C.I. sluice v	alves (with ca	ap) by pro	oviding com	plete with bol	ts, nuts, rub	ber insertio		
	etc. excludi	ng the cost of valve (the	e tail pieces if	required	will be pai	d separately) :	80 mm diam	neter. Class		
	Observed D	etc. excluding the cost of valve (the tail pieces if required will be paid separately) :80 mm diameter. Class Observed Data derived from item no.18.31.of DAR								
			1.000	Nos	613.74	613.74	673.30	673.30		
12	100.98.448		1.000	Nos	613.74	613.74	673.30	673.30		
12	100.98.448 Supply of C	I Air Valve with Flanges	I		11					
12		I Air Valve with Flanges	I		11			Size 40mr		
12	Supply of C	I Air Valve with Flanges	, Conforming	to IS 1484	45 - 2000, k	(inetic Air Valv	e Type DS1,	Size 40mr		
	Supply of C		Conforming	to IS 1484 No	45 - 2000, k 7646.15	(inetic Air Valv 7646.15	e Type DS1, 2693.75	Size 40mr 2693.75		
	Supply of C	I Air Valve with Flanges, I Double Flanged Sluice	Conforming	to IS 1484 No	45 - 2000, k 7646.15	(inetic Air Valv 7646.15	e Type DS1, 2693.75	Size 40mr 2693.75		
12	Supply of C 100.98.457 Supply of C		Conforming	to IS 1484 No	45 - 2000, k 7646.15	(inetic Air Valv 7646.15	e Type DS1, 2693.75	Size 40mn 2693.75		
	Supply of C 100.98.457 Supply of C		Conforming 1.000	to IS 1484 No rming to I	45 - 2000, K 7646.15 S 14846 - 2	Kinetic Air Valv 7646.15 2000, Sluice Va	e Type DS1, 2693.75 alve with Cap	Size 40 2693. 9 PN 1.6		



	100.98.120 Supply of DI K9 Pipe Conforming	n to IS 8329/2000) 350mm	n Dia							
		408.000	metre	5506.95	2246835.60	5238.35	2137246.8				
	40.74.0		motro	0000.00	22-0000.00	0200.00	2107240.0				
2	18.71.6	langed (aproved	d / wold	ad) Contrifu		Coot Iron	Class R / K				
	Providing and laying Double Fl 1536):350 mm dia C.I Double	•	a / weid	ed) Centin	ugany (Spun)	Cast non,					
	1330).330 mm dia C.1 Double										
	1	40.000	metre	10799.16	431966.40	10297.50	411900.00				
3	100.98.464										
	Supply of CI Double Flanged Slu	ice Valve Confo	rming to I	S 14846 - 2	2000, Sluice Va	alve with Ca	p PN 1.6, Si				
	350mm.		U		·		• •				
		1	1.00								
		2.000	No	77806.55	155613.10	31667.35	63334.70				
				11000.00							
4	od81358/2020_2021										
	Supply DI specials, Tees, Bends, Collars, Tapers etc.										
	6	1 1 1 4	61	1232	6. B.	1					
		18.201	quintal	20384.0	371009.18	19397.05	353045.7 <i>°</i>				
SI No	Spec Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount				
				1.58							
1	42 Appendix B - (3) - V 100.1.1 Excavating trenches of required	Vash water dispo width for pipes,	cables,/e	tc including	excavation fo	r sockets, a	-				
	42 Appendix B - (3) - V 100.1.1 Excavating trenches of required sides, ramming of bottoms, dept soil as required, in layers not e ramming, watering, etc. and dis All kinds of soil	Vash water dispo width for pipes, h up to 1.5 m, in exceeding 20 cn	cables, e cluding g n in dept	tc including etting out th h, including	excavation fo ne excavated s consolidating	r sockets, a oil, and the geach depo	n returning to sited layer				
	42 Appendix B - (3) - V 100.1.1 Excavating trenches of required sides, ramming of bottoms, dept soil as required, in layers not e ramming, watering, etc. and dis	Vash water dispo width for pipes, h up to 1.5 m, in exceeding 20 cn	cables, e cluding g n in dept	tc including etting out th h, including	excavation fo ne excavated s consolidating	r sockets, a oil, and the geach depo	n returning th sited layer l				
	42 Appendix B - (3) - V 100.1.1 Excavating trenches of required sides, ramming of bottoms, dept soil as required, in layers not e ramming, watering, etc. and dis All kinds of soil	Vash water dispo width for pipes, h up to 1.5 m, in exceeding 20 cn	cables, e cluding g n in dept	tc including etting out th h, including	excavation fo ne excavated s consolidating	r sockets, a oil, and the geach depo	n returning th osited layer l of 50 m :				
	42 Appendix B - (3) - V 100.1.1 Excavating trenches of required sides, ramming of bottoms, dept soil as required, in layers not e ramming, watering, etc. and dis All kinds of soil	Vash water dispo width for pipes, h up to 1.5 m, in exceeding 20 cn sposing of surpl 572.001 trifugally Cast (S	cables, e cluding g n in dept us excav cum	tc including etting out th h, including vated soil a 579.85	excavation fo ne excavated s g consolidating s directed, wi 331674.78	r sockets, a oil, and the geach depo thin a lead 592.25	n returning th osited layer l of 50 m : 338767.59				
1	42 Appendix B - (3) - V 100.1.1 Excavating trenches of required sides, ramming of bottoms, dept soil as required, in layers not e ramming, watering, etc. and dis All kinds of soil (Ref. Item No. 2.10.1 of DSR) 100.14.6 Conveying and laying S&S Cen cost of pipes and specials : 350 mm dia Ductile Iron Class K-	Vash water dispo width for pipes, h up to 1.5 m, in exceeding 20 cn sposing of surpl 572.001 trifugally Cast (S -9 Pipes AR	cables, e cluding g n in dept us excav cum Spun) / D	tc including etting out th h, including vated soil a 579.85	excavation fo be excavated s consolidating s directed, wi 331674.78 Pipes conform	r sockets, a oil, and the geach depo thin a lead 592.25	n returning th osited layer l of 50 m : 338767.59				
2	42 Appendix B - (3) - V 100.1.1 Excavating trenches of required sides, ramming of bottoms, dept soil as required, in layers not e ramming, watering, etc. and dis All kinds of soil (Ref. Item No. 2.10.1 of DSR) 100.14.6 Conveying and laying S&S Cen cost of pipes and specials : 350 mm dia Ductile Iron Class K- Data derived from 18.72.20 in D/	Vash water dispo width for pipes, h up to 1.5 m, in exceeding 20 cn sposing of surpl 572.001 trifugally Cast (S	cables, e cluding g n in dept us excav cum	tc including etting out th h, including vated soil a 579.85	excavation fo ne excavated s g consolidating s directed, wi 331674.78	r sockets, a oil, and the geach depo thin a lead 592.25	n returning the sited layer here of 50 m : 338767.59				
1	42 Appendix B - (3) - V 100.1.1 Excavating trenches of required sides, ramming of bottoms, dept soil as required, in layers not e ramming, watering, etc. and dis All kinds of soil (Ref. Item No. 2.10.1 of DSR) 100.14.6 Conveying and laying S&S Cen cost of pipes and specials : 350 mm dia Ductile Iron Class K- Data derived from 18.72.20 in DA 100.31.2.8 Conveying and fixing C.I. sluice re excluding the cost of valve (the t	Vash water dispo width for pipes, h up to 1.5 m, in exceeding 20 cn sposing of surpl 572.001 trifugally Cast (\$ -9 Pipes AR 400.000 valves (with cap)	cables, e cluding g n in dept us excav cum Spun) / D metre	tc including etting out th h, including vated soil a 579.85 Ductile Iron I 283.7 ding comple	excavation for he excavated s g consolidating as directed, with 331674.78 Pipes conform 113480.00	r sockets, a oil, and the geach depo thin a lead 592.25 ing to IS: 8 263.05	n returning the sited layer of 50 m : 338767.59 3329 excludin 105220.00				
2	42 Appendix B - (3) - V 100.1.1 Excavating trenches of required sides, ramming of bottoms, dept soil as required, in layers not e ramming, watering, etc. and dis All kinds of soil (Ref. Item No. 2.10.1 of DSR) 100.14.6 Conveying and laying S&S Cen- cost of pipes and specials : 350 mm dia Ductile Iron Class K- Data derived from 18.72.20 in DA 100.31.2.8 Conveying and fixing C.I. sluice re- excluding the cost of valve (the tr 350 mm diameter. Class II"	Vash water dispo width for pipes, h up to 1.5 m, in exceeding 20 cn sposing of surpl 572.001 trifugally Cast (\$ -9 Pipes AR 400.000 valves (with cap) ail pieces if requ	cables, e cluding g n in dept us excav cum Spun) / D metre by provi ired will b	tc including etting out th h, including vated soil a 579.85 Ductile Iron I 283.7 ding comple	excavation for he excavated s g consolidating as directed, with 331674.78 Pipes conform 113480.00	r sockets, a oil, and the geach depo thin a lead 592.25 ing to IS: 8 263.05	n returning the sited layer of 50 m : 338767.59 3329 excludin 105220.00				
2	42 Appendix B - (3) - V 100.1.1 Excavating trenches of required sides, ramming of bottoms, dept soil as required, in layers not e ramming, watering, etc. and dis All kinds of soil (Ref. Item No. 2.10.1 of DSR) 100.14.6 Conveying and laying S&S Cen cost of pipes and specials : 350 mm dia Ductile Iron Class K- Data derived from 18.72.20 in DA 100.31.2.8 Conveying and fixing C.I. sluice re excluding the cost of valve (the t	Vash water dispo width for pipes, h up to 1.5 m, in exceeding 20 cn sposing of surpl 572.001 trifugally Cast (\$ -9 Pipes AR 400.000 valves (with cap) ail pieces if requ	cables, e cluding g n in dept us excav cum Spun) / D metre by provi ired will b	tc including etting out th h, including vated soil a 579.85 Ductile Iron I 283.7 ding comple	excavation for he excavated s g consolidating as directed, with 331674.78 Pipes conform 113480.00	r sockets, a oil, and the geach depo thin a lead 592.25 ing to IS: 8 263.05	n returning the sited layer leads to f 50 m : 338767.59 3329 excluding 105220.00				



	18.83.8 Labour for cutting C.I. pipe with steel	saw.350 mr	n diamete	r C.I pipe							
		15.000	Each Cut	781.1	11716.50	807.85	12117.75				
5	18.70.6 Providing push - on-joints to Centrifu joints and including the cost of rubb	0,11	,	•	r Ductile Iron	Pipes inclue	ling testing				
		85.000	joint	456.93	38839.05	452.50	38462.50				
6	18.67.2 Providing and laying S & S C.I. Stand mm dia	lard special	s suitable	for mecha	nical jointing a	s per IS 133	82:Above 3				
		1.240	quintal	15492.79	19211.06	14786.85	18335.69				
7	18.24 Laying in position S & S or flanged C cost of specials).	.I. special s	uch as te	es, bends,	collars, tapers	and caps e	tc.(excludi				
	1 Sec	18.201	quintal	603.91	10991.77	616.55	11221.83				
8	100.35.6 Testing 350mm DI/CI pipeline with po 350 mm dia Observed Data derived from item no.			uired test p	pressure.	1					
		400.000	metre	70.53	28212.00	74.60	29840.00				
9	5.1.3 Providing and laying in position species shuttering, finishing and reinforcement stone aggregate 20 mm nominal size	nt - All work				-					
		61.208	cum	8964.72	548712.58	11245.05	688287.0				
10		5.22.6 Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding a complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more									
		2448.32 0	kilogram	102.61	251222.12	120.80	295757.0				
	5.9.1										
11	Centering and shuttering including s columns, etc for mass concrete	strutting, et	c. and rei	moval of fo	orm for:Founda	ations, footi	ngs, bases				



12	od41799/2020_2021											
	Construction of RCC valve chamber of size 1mx1mx1.4 m cost of excavation work,75mm thick M10 concrete base,150 mm side wall,150mm bottom and cover slab of chamber with M20 concrete with reinforcement											
		mm side wall,150mm botto plastering inside and out si				r with M20 cor	crete with	reinforcement				
	Including	plastering inside and out si	de of wall	.etc.com	piete.							
	1		2.000	No	42969.05	85938.10	49377.30	98754.60				
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount				
47	Appendix E	3 - (4) - supply and laying 80 a at Nariyanpara top					at Nariyan	para to GLSR				
1	100.98.44		0									
		CI Air Valve, Conforming to I	S 14848 -	2000, Sir	gle Orifice,	Small Orifice	Type S1, Si	ze 25mm.				
			3.000	No	5636.75	16910.25	966.75	2900.25				
2	100.98.45	7	28	1015	100							
_		CI Double Flanged Sluice Va	alve Confo	rming to I	S 14846 - 2	2000, Sluice Va	alve with Ca	p PN 1.6, Size				
	0011111.	61	4.000		0004.05	0004.05	0404.05	0404.05				
		18	1.000	No	6624.05	6624.05	3131.05	3131.05				
3		2020_2021										
	Supply of	80mm GI pipe(m)										
		Ker	1177.00	metre	830.16	V 977098.32	789.80	929594.60				
			0			J						
4		2020_2021	R			Hi		.				
	· ·	for 80mm GI pipe -10 % o					-	GI pipes from				
	Interneu	ate sump at Nariyanpara to	U GLOR a	a nanya	npara top-	(a) Cost of ma	atenais)					
			1.000	set	81318.93	81318.93	81318.95	81318.95				
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount				
		B - (4) - supply and laying 80 (-									
		at Nariyanpara top				•	atrianyan					
1	100.12.8											
	Conveying	g and fixing G.I. pipes compl	lete with G	G.I. fitting	s including	trenching and	refilling etc	. but excluding				
		bes and fittings - External wo	ork.									
		a nominal bore										
	Data deriv	red from item no.18.12.8 of D 0 m	AK									
		• • • •	1177.00 0	metre	217.74	256279.98	220.35	259351.95				
			U	L								



2		ng and fixing C.I. sluice val			•	•		ber insertion
		ding the cost of valve (the	tail pieces i	f required	d will be pa	id separately)	:	
	80 mm dia	ameter. Class II"						
	Observed	Data derived from item no.1	8.31.of DA	R				
			1.000	Nos	652.74	652.74	712.15	712.15
3	excluding 25 mm Si	g and fixing C I Single acting the cost of air valve(the tangle acting Air Valve Data derived from item no.1	il pieces if	required	•		uts,rubber i	nsertions etc
			3.000	Nos	146.63	439.89	146.60	439.80
4	5.2.2		10	Per			<u>ı </u>	
	string cou cost of ce	d cement concrete work in v rses, fillets, columns, pillars ntering, shuttering, finishing 20 mm nominal size)	, piers, abu	itments, p	posts and s	truts etc. up to	t floor five l	evel excludin
		151	3.841	cum	11433.93	43917.73	13791.85	52974.50
5		forcement for R.C.C work in upto plinth levelThermor Me	-	-	-	• • •	•	and binding a
	_		192.050	kilogram	102.61	19706.25	120.80	23199.64
6	-	and shuttering including s etc for mass concrete	strutting, etc	c. and re	moval of fo	orm for:Founda	ations, footi	ngs, bases o
			19.200	sqm	350.0	6720.00	347.55	6672.96
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
	2	19 Appendix B - (5) - Desig	n and cons	truction o	f intermedi	ate sump at Na	rivanpara	
	1		,			•	<u> </u>	
	0.04							
1	cm meas	ungle including uprooting of ured at a height of 1 m abov	-	-				• •
1	Clearing j cm meas	• • • •	re ground le	evel and r	emoval of	rubbish up to a	distance of	f 50 m outsid
	Clearing j cm meas the periph	ured at a height of 1 m abov	-	-				• •
2	Clearing j cm measu the periph 2.8.1	ured at a height of 1 m above hery of the area cleared	225.000	evel and r	emoval of 15.43	rubbish up to a 3471.75	15.60	50 m outsid 3510.00
	Clearing j cm measu the periph 2.8.1 Earth wor	ured at a height of 1 m above hery of the area cleared k in excavation by mechani	e ground le 225.000 cal means (evel and r sqm (Hydraulio	emoval of 15.43	rubbish up to a 3471.75) /manual mea	15.60	f 50 m outsid 3510.00 ation trenche
	Clearing j cm measu the periph 2.8.1 Earth wor or drains bottoms,	ured at a height of 1 m above hery of the area cleared	225.000 cal means (idth or 10 setting out th	evel and r sqm (Hydraulio sqm on p	emoval of 15.43 c excavator plan), inclu	rubbish up to a 3471.75) /manual mea ding dressing	15.60 15.60 Ins in foundation of sides an	50 m outsic 3510.00 ation trenche



5	 2.7.2 Earth work in excavation by mechanical means 30 cm in depth, 1.5 m in width as well as 10 sqr 			,		•
	m and lift up to 1.5 m, disposed earth to be leve	lled and no	eatly dresse	ed.Hard rock (r	equiring bla	sting)
	96.000	cum	749.05	71908.80	1047.20	100531.2
4	4.1.6 Providing and laying in position cement cond shuttering - All work up to plinth level:1:3:6 (1		-	-		-
	nominal size)					
	13.300	cum	7527.06	100109.90	9712.35	129174.2
5	 7.1.1 Random rubble masonry with hard stone in fou 1:6:12 (1 cement : 6 coarse sand : 12 grade with:Cement mortar 1:6 (1 cement : 6 coarse 	d stone a	•			
	66.500	cum	7520.41	500107.27	8030.80	534048.2
6	Providing and laying in position cement conc shuttering - All work up to plinth level:1:3:6 (1	the second se		1		-
	nominal size)		1	2015		
	9.729	cum	7690.32	74819.12	9884.65	96167.76
7	9.729	d and mac ent conter of centerir er IS: 9103 bility as pen. Excess	hine mixed at as per ap ag, shutterin to acceler er direction or less cem	design mix M- proved design ng, finishing an rate, retard set of Engineer -	25 grade ce mix, includi d reinforcer tting of con- in-charge. I	ng pumping nent, includ crete, impro Note:- Ceme
7	9.729 5.33.2 Providing and laying in position machine batche for reinforced cement concrete work, using cem concrete to site of laying but excluding the cost admixtures in recommended proportions as pe workability without impairing strength and dura content considered in this item is @ 330 kg/ cur	d and mac ent conter of centerir er IS: 9103 bility as po n. Excess el upto floo	hine mixed at as per ap ag, shutterin to acceler er direction or less cem	design mix M- proved design ng, finishing an rate, retard set of Engineer -	25 grade ce mix, includi d reinforcer tting of con- in-charge. I	ement concre ing pumping nent, includ crete, impro Note:- Ceme x is payable
8	9.729 5.33.2 Providing and laying in position machine batcher for reinforced cement concrete work, using cem concrete to site of laying but excluding the cost admixtures in recommended proportions as per workability without impairing strength and dura content considered in this item is @ 330 kg/ cur recoverable separately.All work above plinth lev 46.775	d and mac ent conter of centerir er IS: 9103 bility as pe n. Excess el upto floo cum vels. Note tely.Provid	hine mixed at as per ap ag, shutterin to acceler er direction or less cem or V level 11550.4 :- Excess/ ding M-30	design mix M- proved design ng, finishing an rate, retard set of Engineer - nent used as pe 540269.96 less cement o grade concret	25 grade ce mix, includi d reinforcer tting of con- in-charge. I er design mi 13768.90 ver the spe	ement concre ng pumping nent, includ crete, impro Note:- Ceme x is payable 644040.3
	9.729 5.33.2 Providing and laying in position machine batcher for reinforced cement concrete work, using cem concrete to site of laying but excluding the cost admixtures in recommended proportions as per workability without impairing strength and dura content considered in this item is @ 330 kg/ cur recoverable separately.All work above plinth lev 46.775 5.34.1 Extra for providing richer mixes at all floor le content used is payable/ recoverable separately.	d and mac ent conter of centerir er IS: 9103 bility as pe n. Excess el upto floo cum vels. Note tely.Provie ed in M-3	hine mixed at as per ap ag, shutterin to acceler er direction or less cem or V level 11550.4 :- Excess/ ding M-30	design mix M- proved design ng, finishing an rate, retard set of Engineer - nent used as pe 540269.96 less cement o grade concret	25 grade ce mix, includi d reinforcer tting of con- in-charge. I er design mi 13768.90 ver the spe	ement concre ing pumping nent, includi crete, impro Note:- Ceme x is payable 644040.3
	9.729 5.33.2 Providing and laying in position machine batcher for reinforced cement concrete work, using cem concrete to site of laying but excluding the cost admixtures in recommended proportions as per workability without impairing strength and dura content considered in this item is @ 330 kg/ cur recoverable separately.All work above plinth lev 46.775 5.34.1 Extra for providing richer mixes at all floor le content used is payable/ recoverable separa BMC/RMC. (Note:- Cement content consider 46.775	d and mac ent conter of centerin er IS: 9103 bility as pe n. Excess el upto floo cum vels. Note tely.Provio ed in M-3 cum	hine mixed at as per ap ng, shutterin to acceler or less cem or V level 11550.4 :- Excess/ ding M-30 0 is @ 340 85.7 , cutting, be	design mix M- pproved design ng, finishing an rate, retard set of Engineer - nent used as pe 540269.96 less cement o grade concret 0 kg/cum). 4008.62	25 grade ce mix, includi d reinforcer tting of con- in-charge. I er design mi 13768.90 ver the spe te instead of 101.65	ement concre ing pumping nent, includ crete, impro Note:- Ceme x is payable 644040.3 ecified ceme of M-25 gra 4754.68



10	5.9.1 Centering and shuttering including str columns, etc for mass concrete	utting, etc	c. and re	moval of fo	orm for:Founda	ations, foot	ings, bases of		
		18.841	sqm	350.0	6594.35	347.55	6548.19		
11	5.9.2 Centering and shuttering including str attached pilasters, butteresses, plinth	-			orm for:Walls	(any thickn	ess) including		
		141.000	sqm	748.62	105555.42	766.40	108062.40		
12	5.9.3 Centering and shuttering including stru balconies and access platform	tting, etc.	and rem	ioval of for	n for:Suspend	ed floors, r	oofs, landings		
		71.450	sqm	851.52	60841.10	907.25	64823.01		
13	5.9.5 Centering and shuttering including strut bressumers and cantilevers	ting, etc. a	and remo	val of form	for:Lintels, bea	ams, plinth I	beams, girders		
	676-3	10.320	sqm	678.28	6999.85	731.35	7547.53		
14	5.9.6 Centering and shuttering including stru Posts and Struts	tting, etc.	and remo	oval of form	n for:Columns,	Pillars, Pie	rs, Abutments		
		3.600	sqm	901.48	3245.33	910.10	3276.36		
15	13.7.1 Kerala Water Authority 12 mm cement plaster finished with a floating coat of neat cement of mix:1:3 (1 cement : 3 fine sand)								
		125.900	sqm	418.79	52725.66	486.80	61288.12		
16	13.8.2 15 mm cement plaster on rough side of mix:1: 4 (1 cement : 4 fine sand)	single or	half brick	wall finish	ed with a floati	ng coat of r	neat cement of		
		235.622	sqm	453.75	106913.48	530.10	124903.22		
17	100.41.33 Supplying and fixing 500mm dia CI mar charges etc complete.	hole cove	er with fra	me(mediui	n duty) charge	s including	all cost, labour		
		2.000	Nos	7835.95	15671.90	8938.60	17877.20		
18	13.44.1 Finishing walls with water proofing cerr 3.84 kg/10 sqm)	ient paint	of require	ed shade:N	lew work (Two	or more co	oats applied @		
		235.622	sqm	112.09	26410.87	121.20	28557.39		
19	10.26.3 Providing and fixing hand rail of approve railing and similar works, including appl	•	-		-	•	illing, staircase		

20	od149225/2	2018 2019						
20	DOWEL B concrete)	ARS - Supplying and pro including drilling holes o h) etc complete.	0				0	
			50.000	No	481.8	24090.00	676.55	33827.50
21	od148944/ Supplying a	2018_2019 and fixing 100mm dia ver	nt cowl incl. fitt	ing char	ges etc. con	nplete		
	1		2.000	No	3484.5	6969.00	3484.50	6969.00
22	overflow in	2018_2019 & fixing wall casting pip cluding labour charges e to : KWA/HO/SP-5160/2	etc. Complete	and inte	rconnecting	overflow units		
		1.B	1.000	No	48175.54	48175.54	48175.55	48175.55
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
50	Appendix I	3 - (6) - construction of in	termediate pur	mp hous	e at Nariyar	npara- (a) Con	struction of	oump house
	or drains (bottoms, li	in excavation by mechan not exceeding 1.5 m in ft up to 1.5 m, including vithin a lead of 50 m.All	width or 10 s getting out the	qm on p	olan), includ	ding dressing	of sides an	d ramming
			24.307	cum	309.95	7533.95	319.55	7767.30
2	exceeding	contractor's own earth (20 cm in depth, consolid 5 m as per direction of si	ating each der te Engineer-in	posited l	ayer by ram	ming and wate	ering, lead u	ip to 50 m ai
			19.800	cum	548.85	10867.23	342.40	6779.52
					d plinth incl	luding levelling	g up with ce	ment concre
3	1:6:12 (1)	ubble masonry with hard cement : 6 coarse sand ent mortar 1:6 (1 cemer	d : 12 graded nt : 6 coarse s	stone a	ggregate 2	0 mm nomina		
3	Random ru 1:6:12 (1 d	cement : 6 coarse sand	1:12 graded	stone a	-		al size) up 8030.80	to plinth lev 114021.30

5	50.6.1.3						
5	Solid block masonry using pre cast sol confirming to IS 2185 Part I of 1979 for and above in: CM 1:6 (1 cement :6 coa	super stru	icture abo	ove floor two			
		33.406	cum	7784.73	260056.69	8495.10	283787.3
6	10.6.1 Supplying and fixing rolling shutters of through their entire length and jointed shaft with brackets, side guides and ar complete, including the cost of providi high tensile steel wire of adequate str thickness for rolling shutters.80x1.25	together a rangemen ng and fix rength cor	at the end ts for insi ing neces forming t	l by end loc de and outs ssary 27.5 c to IS: 4454	ks, mounted c side locking wi cm long wire s - part 1 and N	on specially th push and prings manu //.S. top cov	designed p pull operat ufactured fr
		9.000	sqm	3617.29	32555.61	4136.05	37224.45
	plates at the junctions and corners, a approved steel primer.Using M.S. an		-		The second se	pplying a p	riming coat
	2414	7.081	sqm	5440.63	38525.10	6399.50	45314.86
8	9.6.1 Providing and fixing 35 mm thick factor and TADS 15:2001 (Part B), including necessery screws, all complete as per thick plain grade- 1, medium density board FPT-I, IS : 3087 marked, bond	ry made la ISI marked r directions flat presse	minated I M.S.pre s of Engir ed three I	veneer lumt ssed butt hi neer-in-Cha ayer particl	per door shutte nges bright fin rge and panel e board FPT-	er conformin ished of req ling with pa I or graded	ig to IS: 146 uired size w nels of:12 r wood parti
8	Providing and fixing 35 mm thick factor and TADS 15:2001 (Part B), including necessery screws, all complete as per thick plain grade- 1, medium density	ry made la ISI marked r directions flat presse	minated I M.S.pre s of Engir ed three I	veneer lumt ssed butt hi neer-in-Cha ayer particl	per door shutte nges bright fin rge and panel e board FPT-	er conformin ished of req ling with pa I or graded	ng to IS: 146 uired size w nels of:12 r wood parti 48:
9	Providing and fixing 35 mm thick factor and TADS 15:2001 (Part B), including necessery screws, all complete as per thick plain grade- 1, medium density	ry made la ISI marked r directions flat presse ed with BV 1.441 ed grade o nt - All wo	minated I M.S.pre s of Engir ed three I VP type s sqm f reinforc	veneer lumb ssed butt hi neer-in-Cha ayer particl synthetic re 3239.48 ed cement o	per door shutte nges bright fin irge and panel e board FPT- esin adhesive a 4668.09	er conformin ished of req ling with pa I or graded as per IS: 8 3301.95	ig to IS: 146 uired size w nels of:12 n wood parti 48: 4758.11 st of centeri
	Providing and fixing 35 mm thick factor and TADS 15:2001 (Part B), including necessery screws, all complete as per thick plain grade- 1, medium density board FPT-I, IS : 3087 marked, bond 5.1.2 Providing and laying in position specific shuttering, finishing and reinforceme	ry made la ISI marked r directions flat presse ed with BV 1.441 ed grade o nt - All wo	minated I M.S.pre s of Engir ed three I VP type s sqm f reinforc	veneer lumb ssed butt hi neer-in-Cha ayer particl synthetic re 3239.48 ed cement o	per door shutte nges bright fin irge and panel e board FPT- esin adhesive a 4668.09	er conformin ished of req ling with pa I or graded as per IS: 8 3301.95	ig to IS: 146 uired size w nels of:12 r wood parti 48: 4758.11 st of centeri oarse sand
	Providing and fixing 35 mm thick factor and TADS 15:2001 (Part B), including necessery screws, all complete as per thick plain grade- 1, medium density board FPT-I, IS : 3087 marked, bond 5.1.2 Providing and laying in position specific shuttering, finishing and reinforceme	ry made la ISI marked directions flat presse ed with BV 1.441 ed grade o nt - All wo inal size 4.628 alls (any th piers, abu	minated I M.S.pre s of Engir ed three I VP type s sqm f reinforc ork up to cum hickness)	veneer lumb ssed butt hi neer-in-Cha ayer particl synthetic re 3239.48 ed cement of plinth leve 9483.15 , including a posts and s	ber door shutte nges bright fin irge and panel e board FPT- sin adhesive a 4668.09 concrete, exclu 1:1:1:5:3 (1 ce 43888.02 attached pilast truts etc. up to	er conformin ished of req ling with pa l or graded as per IS: 8 3301.95 uding the co ement 1.5 c 11828.25 ers, buttress of floor five I	ig to IS: 146 uired size w nels of:12 n wood parti 48: 4758.11 st of centeri oarse sand 54741.14 ses, plinth a evel excludi
9	 Providing and fixing 35 mm thick factor and TADS 15:2001 (Part B), including necessery screws, all complete as per thick plain grade- 1, medium density board FPT-I, IS : 3087 marked, bond 5.1.2 Providing and laying in position specifies shuttering, finishing and reinforceme graded stone aggregate 20 mm nom 5.2.2 Reinforced cement concrete work in w string courses, fillets, columns, pillars, cost of centering, shuttering, finishing a 	ry made la ISI marked directions flat presse ed with BV 1.441 ed grade o nt - All wo inal size 4.628 alls (any th piers, abu	minated I M.S.pre s of Engir ed three I VP type s sqm f reinforc ork up to cum hickness)	veneer lumb ssed butt hi neer-in-Cha ayer particl synthetic re 3239.48 ed cement of plinth leve 9483.15 , including a posts and s	ber door shutte nges bright fin irge and panel e board FPT- sin adhesive a 4668.09 concrete, exclu 1:1:1:5:3 (1 ce 43888.02 attached pilast truts etc. up to	er conformin ished of req ling with pa l or graded as per IS: 8 3301.95 uding the co ement 1.5 c 11828.25 ers, buttress of floor five I	uired size w nels of:12 n wood parti 48: 4758.11 st of centeri oarse sand 54741.12 ses, plinth a evel excludi

		2103.12 0	kilogram	102.61	215801.14	120.80	254056.90
12	5.9.1 Centering and shuttering including s columns, etc for mass concrete	strutting, et	c. and re	moval of fo	orm for:Founda	ations, foot	ings, bases of
		15.900	sqm	350.0	5565.00	347.55	5526.05
13	5.9.3 Centering and shuttering including st balconies and access platform	trutting, etc	and rem	oval of for	m for:Suspend	ed floors, r	oofs, landings
		80.391	sqm	851.52	68454.54	907.25	72934.73
14	5.9.5 Centering and shuttering including str bressumers and cantilevers	rutting, etc.	and remo	val of form	for:Lintels, bea	ıms, plinth	beams, girders
		22.026	sqm	678.28	14939.80	731.35	16108.72
15	5.9.6 Centering and shuttering including st Posts and Struts	rutting, etc.	and remo	oval of form	n for:Columns,	Pillars, Pie	ers, Abutments
	104	11.520	sqm	901.48	10385.05	910.10	10484.35
17	12 mm cement plaster finished with a Ke 13.8.2 15 mm cement plaster on rough side	187.680	atsqmA	u418.79it	y 78598.51	486.80	91362.62
	mix:1: 4 (1 cement : 4 fine sand)					<u> </u>	
		307.362	sqm	453.75	139465.51	530.10	162932.60
18	13.44.1 Finishing walls with water proofing ce 3.84 kg/10 sqm)	ement paint	of require	ed shade:N	lew work (Two	or more co	oats applied @
		495.043	sqm	112.09	55489.37	121.20	59999.21
19	13.50.1 Applying priming coat:With ready m (hard and soft wood)	ixed pink o	r Grey pr	imer of ap	proved and ma	anufacture	on wood work
		9.000	sqm	70.13	631.17	74.75	672.75
20	13.48.3 Finishing with Deluxe Multi surface pa specifications:Painting Steel work with applied @ 0.90 ltr/10 sqm over an un manufacture	th Deluxe M	/lulti Surfa	ce Paint to	give an even	shade. Tw	o or more coa
		15.601	sqm	154.62	2412.23	157.30	2454.04



21	13.71 Lettering v	vith black Japan pint of a	approved brand	and mar	ufacture			
				Letterxc m ht	5.8	8700.00	5.85	8775.00
22	Providing	/2018_2019 sanitary facilities and ele water tank and other re		•			ern ,wash ba	sin,septic tar
			1.000	No	86206.16	86206.16	89801.50	89801.50
23	Dry rubble	/2018_2019 masonry with hard ston : 6 coarse sand : 12 gra			-	• •		
			6.783	cum	4957.19	33624.62	4681.30	31753.26
25	11.21.2.1 Providing / or alkali complete	ent : 4 coarse sand)Aci and fixing 10 mm thick a resisting mortar bedding as per the direction of E 4 coarse sand)Acid and	4.200 Acid and /or alka g, and joints fill ngineer-in-Cha	sqm ater A ali resista ed with a rge.In da	1836.85 uthorit nt tiles of ap	oproved make alkali resisting	g cement as	per IS : 445
	oement : -	roourse sundy told and	24.040		1975.33	47486.93	2235.80	53748.63
SI No	Spec	Description	Quantity	Sqm Unit	DSOR Rate	47400.93 TS Amount	LMR Rate	LMR Amount
	Spec Appendix E	B - (6) - construction of in	ntermediate pur		at Nariyan			
1	or drains bottoms, I	k in excavation by mech (not exceeding 1.5 m i ift up to 1.5 m, including within a lead of 50 m.Al	n width or 10 g getting out th	sqm on p	blan), inclue ated soil an	ding dressing	of sides an	d ramming
			41.400	cum	309.95			13229.37



			5.520	cum	7690.32	42450.57	9884.65	54563.27
3	7.1.1							
	Random rubble masonry				•	0		
	1:6:12 (1 cement : 6 c		-		iggregate 2	20 mm nomina	al size) up	to plinth lev
	with:Cement mortar 1:6	6 (1 cement :	6 coarse	sand)	1		1	
			33.120	cum	7520.41	249075.98	8030.80	265980.10
4	5.2.2							
	Reinforced cement conc	rete work in w	alls (anv th	nickness)	including	attached nilast	ers huttres	ses nlinth a
	string courses, fillets, co			,	-			•
	cost of centering, shutter		•			•		
	aggregate 20 mm nomin							e graded etc
			3.795	cum		43391.76	13791.85	52340.07
			14	E.C.	11433.93			
5	50.2.25.1							
	Filling with contractor's of	own earth (ex	cluding roo	ck) in trei	nches, plint	th, sides of fou	ndations et	c. in layers r
	exceeding 20 cm in dept		•		100 million (1997)			
	lift up to 1.5 m as per dir		-	Carlo III	644~	J. J	0,	•
		1.60		1000	5 40 05	00074.44	0.40.40	10010.0
			48.600	cum	548.85	26674.11	342.40	16640.64
			101000	oum		and the second sec	-	
6	50.6.1.3	194	101000		1.	200		
6		ng pre cast so	13		1.500	ze 40x20x20cn		t available si
6	Solid block masonry usir	• •	lid blocks (Factory r	nade) of siz		n or neares	
6	Solid block masonry usir confirming to IS 2185 Pa	art I of 1979 for	lid blocks (r super stru	Factory r	made) of siz	o level up to flo	n or neares	
6	Solid block masonry usir	art I of 1979 for	lid blocks (r super stru arse sand)	Factory r cture abo etc comp	made) of siz	ro level up to flo	n or nearest	hickness 200
6	Solid block masonry usir confirming to IS 2185 Pa	art I of 1979 for	lid blocks (r super stru	Factory r	made) of siz	o level up to flo	n or neares	hickness 200
6 7	Solid block masonry usir confirming to IS 2185 Pa	art I of 1979 for	lid blocks (r super stru arse sand)	Factory r cture abo etc comp	made) of siz	ro level up to flo	n or nearest	hickness 200
	Solid block masonry usir confirming to IS 2185 Pa and above in: CM 1:6 (1	cement 6 co	lid blocks (r super stru arse sand) 19.201	Factory r icture abo etc comp cum	made) of siz	ro level up to flo	n or neares por V level t 8495.10	hickness 200 163114.4
	Solid block masonry usin confirming to IS 2185 Pa and above in: CM 1:6 (1 13.7.2	cement 6 co	lid blocks (r super stru arse sand) 19.201	Factory r icture abo etc comp cum	made) of siz	ro level up to flo	n or neares por V level t 8495.10	hickness 200 163114.4 sand)
7	Solid block masonry usin confirming to IS 2185 Pa and above in: CM 1:6 (1 13.7.2 12 mm cement plaster fin	cement 6 co	lid blocks (r super stru arse sand) 19.201	Factory r icture abo etc comp cum t of neat	made) of siz ove floor tw plete 0111 7784.73 cement of r	ro level up to flo 149474.60 mix:1:4 (1 cem	n or neares por V level t 8495.10 ent : 4 fine	hickness 200 163114.42
	Solid block masonry usin confirming to IS 2185 Pa and above in: CM 1:6 (1 13.7.2 12 mm cement plaster fin 50.10.1	nished with a f	lid blocks (r super stru arse sand) 19.201 floating coa 204.800	Factory r icture abo etc comp cum t of neat sqm	made) of siz ove floor tw plete 0111 7784.73 cement of r 403.29	ro level up to flo 149474.60 mix:1:4 (1 cem 82593.79	or nearest por V level t 8495.10 ent : 4 fine 468.30	hickness 200 163114.4 sand) 95907.84
7	Solid block masonry usin confirming to IS 2185 Pa and above in: CM 1:6 (1 13.7.2 12 mm cement plaster fin 50.10.1 Steel work in built up G	art I of 1979 for cement 6 co nished with a f	lid blocks (r super stru arse sand) 19.201 loating coa 204.800	Factory r octure abo etc comp cum t of neat sqm re or rec	made) of size ove floor two plete 0111 7784.73 cement of r 403.29	ro level up to flo 149474.60 mix:1:4 (1 cem 82593.79 ollow tubes et	n or nearest por V level t 8495.10 ent : 4 fine 468.30 c.) trusses	hickness 200 163114.4 sand) 95907.84 etc., includi
7	Solid block masonry usin confirming to IS 2185 Pa and above in: CM 1:6 (1 13.7.2 12 mm cement plaster fin 50.10.1 Steel work in built up G cutting, hoisting,fixing in	nished with a f	lid blocks (r super stru arse sand) 19.201 loating coa 204.800 bund, squa	Factory r icture abo etc comp cum t of neat sqm re or rec priming c	made) of size ove floor two plete 0111 7784.73 cement of r 403.29	ro level up to flo 149474.60 mix:1:4 (1 cem 82593.79 ollow tubes et	n or nearest por V level t 8495.10 ent : 4 fine 468.30 c.) trusses	hickness 200 163114.4 sand) 95907.84 etc., includi
7	Solid block masonry usin confirming to IS 2185 Pa and above in: CM 1:6 (1 13.7.2 12 mm cement plaster fin 50.10.1 Steel work in built up G	nished with a f	lid blocks (r super stru arse sand) 19.201 loating coa 204.800 bund, squa	Factory r icture abo etc comp cum t of neat sqm re or rec priming c	made) of size ove floor two plete 0111 7784.73 cement of r 403.29	ro level up to flo 149474.60 mix:1:4 (1 cem 82593.79 ollow tubes et	n or nearest por V level t 8495.10 ent : 4 fine 468.30 c.) trusses	hickness 200 163114.4 sand) 95907.84 etc., includi
7	Solid block masonry usin confirming to IS 2185 Pa and above in: CM 1:6 (1 13.7.2 12 mm cement plaster fin 50.10.1 Steel work in built up G cutting, hoisting,fixing in	nished with a f	lid blocks (r super stru arse sand) 19.201 loating coa 204.800 bund, squa	Factory r icture abo etc comp cum t of neat sqm re or rec priming c	made) of size ove floor two plete 0111 7784.73 cement of r 403.29	ro level up to flo 149474.60 mix:1:4 (1 cem 82593.79 ollow tubes et	n or nearest por V level t 8495.10 ent : 4 fine 468.30 c.) trusses	hickness 200 163114.4 sand) 95907.84 etc., includi ng welding a
7 8	Solid block masonry usin confirming to IS 2185 Pa and above in: CM 1:6 (1 13.7.2 12 mm cement plaster fin 50.10.1 Steel work in built up G cutting, hoisting,fixing in bolted with special shap	nished with a f	lid blocks (r super stru arse sand) 19.201 Ioating coa 204.800 bund, squa applying a cc. complete	Factory r icture abo etc comp cum t of neat sqm re or rec priming c e	made) of siz ove floor tw plete 0111 7784.73 cement of r 403.29 etangular he coat of appr	ro level up to flo 149474.60 mix:1:4 (1 cem 82593.79 ollow tubes etc roved steel prin	n or nearest por V level t 8495.10 ent : 4 fine 468.30 c.) trusses ner, includir	hickness 200 163114.42 sand) 95907.84 etc., includi
7 8 51 No	Solid block masonry usin confirming to IS 2185 Pa and above in: CM 1:6 (1 13.7.2 12 mm cement plaster fin 50.10.1 Steel work in built up G cutting, hoisting,fixing in bolted with special shap	art I of 1979 for cement 6 co nished with a f G I tubular (rc position and a ed washers et	lid blocks (r super stru arse sand) 19.201 loating coa 204.800 bund, squa applying a rc. complet 61.621 Quantity	Factory r octure abo etc comp cum t of neat sqm re or rec priming c e kg Unit	made) of size ove floor two plete 0111 7784.73 cement of r 403.29 etangular he coat of appr 198.21 DSOR Rate	ro level up to flo 149474.60 mix:1:4 (1 cem 82593.79 ollow tubes etc roved steel prin 12213.90 TS Amount	n or nearest por V level t 8495.10 ent : 4 fine 468.30 c.) trusses ner, includir 201.90 LMR Rate	hickness 200 163114.4 sand) 95907.84 etc., includi ng welding a 12441.28 LMR Amount
7 8 51 No	Solid block masonry usin confirming to IS 2185 Pa and above in: CM 1:6 (1 13.7.2 12 mm cement plaster fin 50.10.1 Steel work in built up G cutting, hoisting,fixing in bolted with special shap	art I of 1979 for cement 6 co nished with a f G I tubular (rc position and a ed washers et	lid blocks (r super stru arse sand) 19.201 Toating coa 204.800 bund, squa applying a cc. complete 61.621 Quantity 80mm GI p	Factory r etc comp cum t of neat sqm re or rec priming c e kg Unit	made) of siz ove floor tw olete 7784.73 cement of r 403.29 etangular he coat of appr 198.21 DSOR Rate main from s	ro level up to flo 149474.60 mix:1:4 (1 cem 82593.79 ollow tubes etc roved steel prin 12213.90 TS Amount	n or nearest por V level t 8495.10 ent : 4 fine 468.30 c.) trusses ner, includir 201.90 LMR Rate	hickness 200 163114.4 sand) 95907.84 etc., includi ng welding a 12441.28 LMR Amount
7 8 SI No 54	Solid block masonry usin confirming to IS 2185 Pa and above in: CM 1:6 (1 13.7.2 12 mm cement plaster fin 50.10.1 Steel work in built up G cutting, hoisting,fixing in bolted with special shap Spec Desc Appendix B - (7) - Supplyi	art I of 1979 for cement 6 co nished with a f G I tubular (rc position and a ed washers et	lid blocks (r super stru arse sand) 19.201 Toating coa 204.800 bund, squa applying a cc. complete 61.621 Quantity 80mm GI p	Factory r octure abo etc comp cum t of neat sqm re or rec priming c e kg Unit	made) of siz ove floor tw olete 7784.73 cement of r 403.29 etangular he coat of appr 198.21 DSOR Rate main from s	ro level up to flo 149474.60 mix:1:4 (1 cem 82593.79 ollow tubes etc roved steel prin 12213.90 TS Amount	n or nearest por V level t 8495.10 ent : 4 fine 468.30 c.) trusses ner, includir 201.90 LMR Rate	hickness 200 163114.42 sand) 95907.84 etc., includi ng welding a 12441.28 LMR Amount
7 8 51 No	Solid block masonry usin confirming to IS 2185 Pa and above in: CM 1:6 (1 13.7.2 12 mm cement plaster fin 50.10.1 Steel work in built up G cutting, hoisting,fixing in bolted with special shap Spec Desc Appendix B - (7) - Supplyi	art I of 1979 for cement :6 co nished with a f B I tubular (rc position and a ed washers et pription ing and laying	lid blocks (r super stru arse sand) 19.201 Toating coa 204.800 bund, squa applying a cc. complete 61.621 Quantity 80mm GI p	Factory r etc comp cum t of neat sqm re or rec priming c e kg Unit	made) of siz ove floor tw olete 7784.73 cement of r 403.29 etangular he coat of appr 198.21 DSOR Rate main from s	ro level up to flo 149474.60 mix:1:4 (1 cem 82593.79 ollow tubes etc roved steel prin 12213.90 TS Amount	n or nearest por V level t 8495.10 ent : 4 fine 468.30 c.) trusses ner, includir 201.90 LMR Rate	hickness 200 163114.4 sand) 95907.84 etc., includi ng welding a 12441.28 LMR Amount
7 8 SI No 54	Solid block masonry usin confirming to IS 2185 Pa and above in: CM 1:6 (1 13.7.2 12 mm cement plaster fin 50.10.1 Steel work in built up G cutting, hoisting,fixing in bolted with special shap Spec Desc Appendix B - (7) - Supplyi	art I of 1979 for cement :6 co nished with a f B I tubular (rc position and a ed washers et pription ing and laying	lid blocks (r super stru arse sand) 19.201 Toating coa 204.800 bund, squa applying a cc. complete 61.621 Quantity 80mm GI p	Factory r etc comp cum t of neat sqm re or rec priming c e kg Unit	made) of siz ove floor tw olete 7784.73 cement of r 403.29 etangular he coat of appr 198.21 DSOR Rate main from s	ro level up to flo 149474.60 mix:1:4 (1 cem 82593.79 ollow tubes etc roved steel prin 12213.90 TS Amount	n or nearest por V level t 8495.10 ent : 4 fine 468.30 c.) trusses ner, includir 201.90 LMR Rate	hickness 200 163114.42 sand) 95907.84 etc., includi ng welding a 12441.28 LMR Amount
7 8 SI No 54	Solid block masonry usin confirming to IS 2185 Pa and above in: CM 1:6 (1 13.7.2 12 mm cement plaster fin 50.10.1 Steel work in built up G cutting, hoisting,fixing in bolted with special shap Spec Desc Appendix B - (7) - Supplyi	art I of 1979 for cement :6 co nished with a f B I tubular (rc position and a ed washers et pription ing and laying	lid blocks (r super stru arse sand) 19.201 Toating coa 204.800 bund, squa applying a cc. complete 61.621 Quantity 80mm GI p	Factory r etc comp cum t of neat sqm re or rec priming c e kg Unit	made) of siz ove floor tw olete 7784.73 cement of r 403.29 etangular he coat of appr 198.21 DSOR Rate main from s	ro level up to flo 149474.60 mix:1:4 (1 cem 82593.79 ollow tubes etc roved steel prin 12213.90 TS Amount	n or nearest por V level t 8495.10 ent : 4 fine 468.30 c.) trusses ner, includir 201.90 LMR Rate	hickness 200 163114.4 sand) 95907.84 etc., includi ng welding a 12441.28 LMR Amount



2		2018_2019 or 80mm GI pipe						
			1.000	set	21417.9	21417.90	21417.90	21417.90
3	100.98.428 Supply of (3 CI Non Return Valve, Confo	orming to IS	5312 Pai	rt I - 1984, I	PN 1.6, Size 80)mm.	
			2.000	No	5943.4	11886.80	4160.65	8321.30
4	100.98.440 Supply of () CI Air Valve, Conforming to	IS 14848 - :	2000. Sin	ale Orifice.	Small Orifice	Type S1. Siz	e 25mm.
		<u> </u>	2.000	No	5636.75	11273.50	966.75	1933.50
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
55	Appendix B	8 - (7) - Supplying and laying	-	oumping		sump at TP to a	Alady Kurisu	mala GLSR-
	depth 0 m nearby stru	ents and disposing unserv to 1.50m) and providing pr uctures(200 Nos. of earth fi No. 1004 A of T C)	otection by	earth fille	d cement b	ags during bla	•	
			8.000	cum	4093.4	32747.20	2547.30	20378.40
2	cost of pip 80 mm dia	and fixing G.I. pipes comp es and fittings - External w nominal bore ed from item no.18.12.8 of l	vork.				refilling etc.	but excluding
			310.000	metre	217.74	67499.40	220.35	68308.50
3	etc. exclud 80 mm dia	g and fixing C.I. sluice val ding the cost of valve (the meter. Class II" Data derived from item no.	tail pieces i	f required	-			ber insertions
			2.000	Nos	652.74	1305.48	712.15	1424.30
4	excluding 25 mm Sin	g and fixing C I Single acti the cost of air valve(the ta igle acting Air Valve Data derived from item no. ²	ng Air Valvo ail pieces if	required	oved quali	ty with bolts,n		sertions etc
	Coscived		10.00.01 DAI	•				
			2.000	Nos	146.63	293.26	146.60	293.20



5	5.2.2 Reinforced ce	ment concrete work ir	walls (any th	nickness)	including	attached nilast	ers buttres	ses plinth and
	string courses cost of center	s, fillets, columns, pilla ing, shuttering, finishin mm nominal size)	rs, piers, abu	itments, p	oosts and s	truts etc. up to	t floor five l	evel excluding
			4.557	cum	11433.93	52104.42	13791.85	62849.46
6		ement for R.C.C work i pplinth levelThermo - N	-		-	• • •	•	and binding a
			227.851	kilogram	102.61	23379.79	120.80	27524.40
7	-	d shuttering including for mass concrete	strutting, etc	c. and rei	moval of fo	orm for:Founda	ations, foot	ngs, bases o
		1	40.500	sqm	350.0	14175.00	347.55	14075.78
	0.10kg/each)	luding drilling holes of etc complete.				Q.S.		
			200.000 erala Wa	No	481.8	96360.00	676.55	135310.00
9	portion,testing	es by cutting and joint the line to the require ite, as per the directior	d pressure, ii	ncluding t	he charges	hire and conv	•	0
			45.000	No	468.28	21072.60	768.40	34578.00
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
		62 Appendix B -	(8)- Line cha	rging, sta	bilization&	interconnectior	า	
		No Spe	ecifications ac	dded unde	er this Estir	nate		
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
64	Appendix B - (8)- Line charging, stab from ⁻	ilization& inte T P sump usi		. ,		ork of Distri	bution Zone I
1	sides, rammir soil as requir ramming, wa All kinds of so	enches of required wid og of bottoms, depth up ed, in layers not exce tering, etc. and dispo il . 2.10.1 of DSR)	o to 1.5 m, indeeding 20 cm	cluding ge n in depth	etting out th n, including	ne excavated s g consolidating	oil, and the geach depo	n returning th sited layer b

				E70.9E	38965.92	592.25	39799.20	
		67.200	cum	579.85	00000.02	002.20	53133.20	
2	100.1.5							
	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing o							
	sides, ramming of bottoms, depth up t			-			-	
	soil as required, in layers not exceed		00	•			•	
	ramming, watering, etc. and disposir	•		-	-		•	
	Ordinary Rock.	0 1						
	(Ref. Item No. 2.13.1 of DSR)							
		19.201	cum	842.1	16169.16	1033.20	19838.47	
	100.0.1	10.201	oum	072.1	10100.10	1000.20	10000.47	
3	100.2.1					ndation tran	ahaa ay dyaly	
	Excavation work by mechanical means							
	(not exceeding 1.5 m in width or 10 m2			-		-		
	1.5 m, including getting out the excav	ated soll a	ina aispo	sal of surpl	lus excavated	solis as dire	ected, within	
	lead of 50 m.							
	Medium Rock (Requiring Blasting)							
	New Data derived from Item No.2.9.2	DT DAR.		20				
		6.721	cum	749.12	5034.84	1021.25	6863.82	
	1.00							
4	100.1.13 "Excavating trenches of required width sides, ramming of bottoms, depth up t soil as required, in layers not exceed ramming, watering, etc. and disposir	o 1.5 m, in ding 20 cm ng of surpl	cluding ge n in depth us excav	etting out th n, including ated soil a	ne excavated s g consolidating as directed, wit	oil, and the geach depo	n returning th sited layer b	
4	"Excavating trenches of required width sides, ramming of bottoms, depth up t soil as required, in layers not exceed ramming, watering, etc. and disposin Hard Rock(Blasting Prohibited)	o 1.5 m, in ding 20 cm ng of surpl	cluding ge n in depth us excav	etting out the	ne excavated s g consolidating as directed, wit	oil, and the geach depo	n returning th sited layer b	
4	"Excavating trenches of required width sides, ramming of bottoms, depth up t soil as required, in layers not exceed ramming, watering, etc. and disposir	o 1.5 m, in ding 20 cn ng of surpl ala Wa	cluding ge n in depth us excav ater A	etting out the including ated soil a uthorit	ne excavated s g consolidating as directed, with	oil, and the geach depc thin a lead	n returning th osited layer b of 50 m :	
4	"Excavating trenches of required width sides, ramming of bottoms, depth up t soil as required, in layers not exceed ramming, watering, etc. and disposin Hard Rock(Blasting Prohibited)	o 1.5 m, in ding 20 cm ng of surpl	cluding ge n in depth us excav	etting out th n, including ated soil a	ne excavated s g consolidating as directed, wit	oil, and the geach depo	n returning th sited layer b	
	"Excavating trenches of required width sides, ramming of bottoms, depth up t soil as required, in layers not exceed ramming, watering, etc. and disposin Hard Rock(Blasting Prohibited)	o 1.5 m, in ding 20 cn ng of surpl ala Wa	cluding ge n in depth us excav ater A	etting out the including ated soil a uthorit	ne excavated s g consolidating as directed, with	oil, and the geach depc thin a lead	n returning th osited layer b of 50 m :	
	"Excavating trenches of required width sides, ramming of bottoms, depth up t soil as required, in layers not exceed ramming, watering, etc. and disposin Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR)	o 1.5 m, in ding 20 cn ng of surpl ala 2.880	cluding ge n in depth us excav ater A	etting out th n, including ated soil a uthorit 1624.48	ne excavated s g consolidating as directed, with 4678.50	oil, and the geach depo thin a lead 2180.20	n returning th osited layer to of 50 m : 6278.98	
	"Excavating trenches of required width sides, ramming of bottoms, depth up t soil as required, in layers not exceed ramming, watering, etc. and disposin Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 0f DSR)	o 1.5 m, in ding 20 cn ng of surpl 2.880 height with	cluding ge n in depth us excav ater A	etting out th n, including ated soil a uthorit 1624.48	ne excavated s g consolidating as directed, with 4678.50	oil, and the geach depo thin a lead 2180.20	n returning th osited layer to of 50 m : 6278.98	
	"Excavating trenches of required width sides, ramming of bottoms, depth up t soil as required, in layers not exceed ramming, watering, etc. and disposin Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m	o 1.5 m, in ding 20 cm of surpl 2.880 height with intervals.	cluding ge n in depth us excav ater A cum	etting out th n, including ated soil a uthorit 1624.48	ne excavated s g consolidating as directed, with 4678.50	oil, and the geach depo thin a lead 2180.20	n returning th osited layer to of 50 m : 6278.98	
	"Excavating trenches of required width sides, ramming of bottoms, depth up t soil as required, in layers not exceed ramming, watering, etc. and disposin Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m pole (girth 15cm to 24cm) fixed at 2 m	o 1.5 m, in ding 20 cm g of surpl 2.880 height with intervals. Item No.10	cluding ge n in depth us excav ater A cum n two rows	etting out the n, including ated soil a uthorit 1624.48 s of 10 cm	ne excavated s g consolidating as directed, with 4678.50	oil, and the geach depo thin a lead 2180.20 tape in ver	n returning the sited layer to of 50 m : 6278.98	
5	 "Excavating trenches of required width sides, ramming of bottoms, depth up t soil as required, in layers not exceed ramming, watering, etc. and disposin Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m pole (girth 15cm to 24cm) fixed at 2 m (Data Prepared based on PWD SDB - 	o 1.5 m, in ding 20 cm of surpl 2.880 height with intervals.	cluding ge n in depth us excav ater A cum	etting out th n, including ated soil a uthorit 1624.48	he excavated s g consolidating as directed, with 4678.50 plastic caution	oil, and the geach depo thin a lead 2180.20	n returning th osited layer to of 50 m : 6278.98	
5	 "Excavating trenches of required width sides, ramming of bottoms, depth up t soil as required, in layers not exceed ramming, watering, etc. and disposin Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m pole (girth 15cm to 24cm) fixed at 2 m (Data Prepared based on PWD SDB - 50.2.25.1 	o 1.5 m, in ding 20 cm of surpl 2.880 height with intervals. Item No.10 100.000	cluding ge n in depth us excav cum two rows 009) metre	etting out the n, including ated soil a 1624.48 s of 10 cm 28.82	he excavated s g consolidating as directed, with 4678.50 plastic caution 2882.00	oil, and the geach depo thin a lead 2180.20 tape in ver 29.10	n returning the sited layer to of 50 m : 6278.98 tical casuarin 2910.00	
5	 "Excavating trenches of required width sides, ramming of bottoms, depth up t soil as required, in layers not exceed ramming, watering, etc. and disposin Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m pole (girth 15cm to 24cm) fixed at 2 m (Data Prepared based on PWD SDB - 50.2.25.1 Filling with contractor's own earth (exceed to the second seco	o 1.5 m, in ding 20 cm g of surpl 2.880 height with intervals. Item No.10 100.000	cluding ge n in depth us excav ater A cum n two rows 009) metre	etting out the n, including ated soil a uthorit 1624.48 s of 10 cm 28.82 aches, plint	he excavated s g consolidating as directed, with 4678.50 plastic caution 2882.00	oil, and the geach depo thin a lead 2180.20 tape in ver 29.10	n returning the sited layer to of 50 m : 6278.98 tical casuarin 2910.00	
5	 "Excavating trenches of required width sides, ramming of bottoms, depth up t soil as required, in layers not exceed ramming, watering, etc. and disposin Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m pole (girth 15cm to 24cm) fixed at 2 m (Data Prepared based on PWD SDB - 50.2.25.1 Filling with contractor's own earth (execceding 20 cm in depth, consolidation) 	o 1.5 m, in ding 20 cm of surpl 2.880 height with intervals. Item No.10 100.000	cluding ge n in depth us excav ater A cum two rows 009) metre ck) in tren	etting out the n, including ated soil a uthorit 1624.48 s of 10 cm 28.82 aches, plint	he excavated s g consolidating as directed, with 4678.50 plastic caution 2882.00	oil, and the geach depo thin a lead 2180.20 tape in ver 29.10	n returning the sited layer to of 50 m : 6278.98 tical casuarin 2910.00	
5	 "Excavating trenches of required width sides, ramming of bottoms, depth up t soil as required, in layers not exceed ramming, watering, etc. and disposin Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m pole (girth 15cm to 24cm) fixed at 2 m (Data Prepared based on PWD SDB - 50.2.25.1 Filling with contractor's own earth (exceed to the second seco	o 1.5 m, in ding 20 cm of surpl 2.880 height with intervals. Item No.10 100.000	cluding ge n in depth us excav ater A cum two rows 009) metre ck) in tren	etting out the n, including ated soil a uthorit 1624.48 s of 10 cm 28.82 aches, plint	he excavated s g consolidating as directed, with 4678.50 plastic caution 2882.00	oil, and the geach depo thin a lead 2180.20 tape in ver 29.10	n returning the sited layer to of 50 m : 6278.98 tical casuarin 2910.00	
5	 "Excavating trenches of required width sides, ramming of bottoms, depth up t soil as required, in layers not exceed ramming, watering, etc. and disposin Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m pole (girth 15cm to 24cm) fixed at 2 m (Data Prepared based on PWD SDB - 50.2.25.1 Filling with contractor's own earth (execceding 20 cm in depth, consolidation) 	o 1.5 m, in ding 20 cm of surpl 2.880 height with intervals. Item No.10 100.000	cluding ge n in depth us excav ater A cum two rows 009) metre ck) in tren	etting out the n, including ated soil a uthorit 1624.48 s of 10 cm 28.82 aches, plint	he excavated s g consolidating as directed, with 4678.50 plastic caution 2882.00	oil, and the geach depo thin a lead 2180.20 tape in ver 29.10	n returning the sited layer to of 50 m : 6278.98 tical casuarin 2910.00	
5	 "Excavating trenches of required width sides, ramming of bottoms, depth up t soil as required, in layers not exceed ramming, watering, etc. and disposin Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m pole (girth 15cm to 24cm) fixed at 2 m (Data Prepared based on PWD SDB - 50.2.25.1 Filling with contractor's own earth (execceding 20 cm in depth, consolidating lift up to 1.5 m as per direction of site lift. 	o 1.5 m, in ding 20 cm of surpl 2.880 height with intervals. Item No.10 100.000 ccluding room ng each de Engineer-in	cluding ge n in depth us excav cum cum n two rows 009) metre ck) in tren posited la n-charge	etting out the n, including ated soil a uthorit 1624.48 s of 10 cm 28.82 aches, plint ayer by ram	he excavated s g consolidating as directed, with 4678.50 plastic caution 2882.00 th, sides of four himing and wate	oil, and the geach depo thin a lead 2180.20 tape in ver 29.10 ndations etc ering, lead u	n returning the sited layer to of 50 m : 6278.98 tical casuaring 2910.00 c. in layers nup to 50 m ar	
5	 "Excavating trenches of required width sides, ramming of bottoms, depth up t soil as required, in layers not exceed ramming, watering, etc. and disposin Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m pole (girth 15cm to 24cm) fixed at 2 m (Data Prepared based on PWD SDB - 50.2.25.1 Filling with contractor's own earth (execceding 20 cm in depth, consolidating lift up to 1.5 m as per direction of site 100.14.3 	o 1.5 m, in ding 20 cm of surpl 2.880 height with intervals. Item No.100 100.000 ccluding room g each de Engineer-ir 5.000	cluding ge n in depth us excav ater A cum n two rows 009) metre ck) in tren posited la n-charge cum	etting out the n, including ated soil a uthorit 1624.48 s of 10 cm 28.82 aches, plint ayer by ram 548.85	he excavated s g consolidating as directed, with 4678.50 plastic caution 2882.00 th, sides of four himing and wate 2744.25	oil, and the geach depo thin a lead 2180.20 tape in ver 29.10 ndations etc ering, lead u 342.40	n returning the sited layer to of 50 m : 6278.98 tical casuaring 2910.00 c. in layers nup to 50 m ar 1712.00	
5	 "Excavating trenches of required width sides, ramming of bottoms, depth up t soil as required, in layers not exceed ramming, watering, etc. and disposin Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m pole (girth 15cm to 24cm) fixed at 2 m (Data Prepared based on PWD SDB - 50.2.25.1 Filling with contractor's own earth (execceding 20 cm in depth, consolidating lift up to 1.5 m as per direction of site 100.14.3 Conveying and laying S&S Centrifugation 	o 1.5 m, in ding 20 cm of surpl 2.880 height with intervals. Item No.100 100.000 ccluding room g each de Engineer-ir 5.000	cluding ge n in depth us excav ater A cum n two rows 009) metre ck) in tren posited la n-charge cum	etting out the n, including ated soil a uthorit 1624.48 s of 10 cm 28.82 aches, plint ayer by ram 548.85	he excavated s g consolidating as directed, with 4678.50 plastic caution 2882.00 th, sides of four himing and wate 2744.25	oil, and the geach depo thin a lead 2180.20 tape in ver 29.10 ndations etc ering, lead u 342.40	n returning the sited layer to of 50 m : 6278.98 tical casuaring 2910.00 c. in layers nup to 50 m ar 1712.00	
5	 "Excavating trenches of required width sides, ramming of bottoms, depth up t soil as required, in layers not exceed ramming, watering, etc. and disposin Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m pole (girth 15cm to 24cm) fixed at 2 m (Data Prepared based on PWD SDB - 50.2.25.1 Filling with contractor's own earth (exected ing 20 cm in depth, consolidating lift up to 1.5 m as per direction of site 100.14.3 Conveying and laying S&S Centrifugation cost of pipes and specials : 	o 1.5 m, in ding 20 cm og of surpl 2.880 height with intervals. Item No.10 100.000 ccluding room g each de Engineer-ir 5.000	cluding ge n in depth us excav ater A cum n two rows 009) metre ck) in tren posited la n-charge cum	etting out the n, including ated soil a uthorit 1624.48 s of 10 cm 28.82 aches, plint ayer by ram 548.85	he excavated s g consolidating as directed, with 4678.50 plastic caution 2882.00 th, sides of four himing and wate 2744.25	oil, and the geach depo thin a lead 2180.20 tape in ver 29.10 ndations etc ering, lead u 342.40	n returning the sited layer to of 50 m : 6278.98 tical casuaring 2910.00 c. in layers nup to 50 m ar 1712.00	
5	 "Excavating trenches of required width sides, ramming of bottoms, depth up t soil as required, in layers not exceed ramming, watering, etc. and disposin Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m pole (girth 15cm to 24cm) fixed at 2 m (Data Prepared based on PWD SDB - 50.2.25.1 Filling with contractor's own earth (exceeding 20 cm in depth, consolidating lift up to 1.5 m as per direction of site 100.14.3 Conveying and laying S&S Centrifugation cost of pipes and specials : 200 mm dia Ductile Iron Class K-9 Pipe 	o 1.5 m, in ding 20 cm og of surpl 2.880 height with intervals. Item No.10 100.000 ccluding room g each de Engineer-ir 5.000	cluding ge n in depth us excav ater A cum n two rows 009) metre ck) in tren posited la n-charge cum	etting out the n, including ated soil a uthorit 1624.48 s of 10 cm 28.82 aches, plint ayer by ram 548.85	he excavated s g consolidating as directed, with 4678.50 plastic caution 2882.00 th, sides of four himing and wate 2744.25	oil, and the geach depo thin a lead 2180.20 tape in ver 29.10 ndations etc ering, lead u 342.40	n returning the sited layer to of 50 m : 6278.98 tical casuaring 2910.00 c. in layers nup to 50 m ar 1712.00	
4 5 6 7	 "Excavating trenches of required width sides, ramming of bottoms, depth up t soil as required, in layers not exceed ramming, watering, etc. and disposin Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m pole (girth 15cm to 24cm) fixed at 2 m (Data Prepared based on PWD SDB - 50.2.25.1 Filling with contractor's own earth (exected ing 20 cm in depth, consolidating lift up to 1.5 m as per direction of site 100.14.3 Conveying and laying S&S Centrifugation cost of pipes and specials : 	o 1.5 m, in ding 20 cm og of surpl 2.880 height with intervals. Item No.10 100.000 ccluding room g each de Engineer-ir 5.000	cluding ge n in depth us excav ater A cum n two rows 009) metre ck) in tren posited la n-charge cum	etting out the n, including ated soil a uthorit 1624.48 s of 10 cm 28.82 aches, plint ayer by ram 548.85	he excavated s g consolidating as directed, with 4678.50 plastic caution 2882.00 th, sides of four himing and wate 2744.25	oil, and the geach depo thin a lead 2180.20 tape in ver 29.10 ndations etc ering, lead u 342.40	n returning the sited layer be of 50 m : 6278.98 tical casuaring 2910.00 c. in layers near the second secon	



8	18.70.3 Providing push - on-joints to Ce joints and including the cost of r	••••		•	or Ductile Iron	Pipes inclu	ding testing of
	ļ,	20.000	joint	270.11	5402.20	274.60	5492.00
9	18.30.5 Providing flanged joints to doub diameter pipe	ble flanged C.I./	D.I pipe	s and spec	sials, including	testing of	joints:200 mm
		3.000	Nos	436.83	1310.49	510.85	1532.55
10	18.67.1 Providing and laying S & S C.I. S mm dia	Standard specia	ls suitable	e for mech	anical jointing	as per IS 1:	3382:Upto 300
		0.960	quintal	14708.65	14120.30	14043.50	13481.76
11	18.25.1 Providing and laying S & S C.I class):Upto 300 mm dia	standard speci	als such	as tees, b	ends, collars,	tapers, cap	os etc. (Heavy
		0.930	quintal	6536.99	6079.40	7875.95	7324.63
12	18.83.5 Labour for cutting C.I. pipe with s	teel saw.200 mr	n diamete	er C.I. pipe	D)		
		7.000 Kerala Wa	Each	449.57 uthorit	3146.99 V	464.85	3253.95
13	100.35.3 Testing 200mm DI/CI pipeline wit 200 mm dia Observed Data derived from item			juired test p	pressure		
		100.000	metre	41.56	4156.00	43.50	4350.00
14	4.1.3 Providing and laying in position shuttering - All work up to plintl nominal size)		•	0	•		•
		3.000	cum	8340.93	25022.79	10609.70	31829.10
15	5.9.1 Centering and shuttering includ		c. and re	moval of fo	orm for:Founda	ations, foot	ings, bases of
	columns, etc for mass concrete						

16	100 21 1 5									
16	100.31.1.5	nd fixing C.I. sluice va	lves (with ca	n) by pro	widing com	nlete with hol	ts nuts rub	her insertio		
		-			-	-				
	etc. excluding the cost of valve (the tail pieces if required will be paid separately) : 200 mm diameter. Class I"									
		rom item no.18.31.4.1	of DAR							
			1.000	Nos	1625.9	1625.90	1770.80	1770.80		
47	400.00.0									
17	100.32.3	d fiving C I Single ad	ting Air Volu	a of oppo		tu with holton	uto rubbor i	noortiona at		
		d fixing C I Single act cost of air valve(the t	•			-	uts, rubber i			
	-	acting Air Valve		required	will be pai	a seperatory).				
		rom item no.18.59.1 of	DAR							
			2.000	Nos	229.21	458.42	259.35	518.70		
10	ad100175/001	0.0010	10	19-						
18	od190175/201	of RCC valve chambe	ar of oizo 1m	v1mv1m	oost ovo	avotion work 7	Emm thick	M10 conorc		
		side wall,150mm bot				,				
	,	tering inside and out						rennorcenie		
		tering inside and out	Side of Wall	.010.00111	piete.inioid		001011			
			1 000	N		40070.00	47004.05	47004.05		
			1.000	No	42076.66	42076.66	47834.95	47834.95		
19	100.98.117									
		9 Pipe Conforming to	IS 8329/2000), 200mm	Dia.					
			era100.000			V 258908.00	2462.40	246240.00		
20	100.98.435						I I			
			o IS 14848 -	2000. Kin	etic Air Val	ve Type DK. S	ize 50mm.			
		ir Valve. Conforming to								
		ir Valve, Conforming to			7054 05			7004 50		
		ir Valve, Conforming to	2.000	No	7951.65	15903.30	3600.75	7201.50		
21	Supply of CI A 100.98.461		2.000	No	II	15903.30	3600.75			
21	Supply of CI A 100.98.461 Supply of CI D	ouble Flanged Sluice	2.000	No	II	15903.30	3600.75			
21	Supply of CI A 100.98.461		2.000	No	II	15903.30	3600.75			
21	Supply of CI A 100.98.461 Supply of CI D		2.000 Valve Confor	No ming to l	II	15903.30 2000, Sluice Va	3600.75	p PN 1.6, Si		
	Supply of CI A 100.98.461 Supply of CI D		2.000	No	S 14846 - 2 23723.65	15903.30	3600.75 alve with Ca 11794.00			
21 SI No	Supply of CI A 100.98.461 Supply of CI D		2.000 Valve Confor	No ming to l	S 14846 - 2	15903.30 2000, Sluice Va	3600.75	p PN 1.6, Si		
SI No	Supply of CI A 100.98.461 Supply of CI D 200mm.	ouble Flanged Sluice	2.000 Valve Confor 1.000 Quantity	No rming to I No Unit	S 14846 - 2 23723.65 DSOR Rate	15903.30 2000, Sluice Va 23723.65 TS Amount	3600.75 alve with Ca 11794.00 LMR Rate	p PN 1.6, Si 11794.00		
SI No	Supply of CI A 100.98.461 Supply of CI D 200mm.	Pouble Flanged Sluice	2.000 Valve Confor 1.000 Quantity ization& inter	No rming to I No Unit	S 14846 - 2 23723.65 DSOR Rate on- (b) Inter	15903.30 2000, Sluice Va 23723.65 TS Amount	3600.75 alve with Ca 11794.00 LMR Rate	p PN 1.6, Si 11794.00		
SI No	Supply of CI A 100.98.461 Supply of CI D 200mm.	Pouble Flanged Sluice	2.000 Valve Confor 1.000 Quantity ization& inter	No rming to I No Unit	S 14846 - 2 23723.65 DSOR Rate DN- (b) Inter	15903.30 2000, Sluice Va 23723.65 TS Amount	3600.75 alve with Ca 11794.00 LMR Rate	p PN 1.6, Si 11794.00 LMR Amount		
SI No 65 A	Supply of CI A 100.98.461 Supply of CI D 200mm. Spec Appendix B - (8) 100.12.8	Pouble Flanged Sluice	2.000 Valve Confor 1.000 Quantity ization& inter using 80	No ming to I No Unit connection mm G I p	S 14846 - 2 23723.65 DSOR Rate on- (b) Inter pipe	15903.30 2000, Sluice Va 23723.65 TS Amount	3600.75 alve with Ca 11794.00 LMR Rate rk to Zone 1	p PN 1.6, Si 11794.00 LMR Amount A-Marykular		
SI No 65 A	Supply of CI A 100.98.461 Supply of CI D 200mm. Spec Appendix B - (8) 100.12.8 Conveying and	Description	2.000 Valve Confor 1.000 Quantity ization& inter using 80	No ming to I No Unit connection mm G I p	S 14846 - 2 23723.65 DSOR Rate on- (b) Inter pipe	15903.30 2000, Sluice Va 23723.65 TS Amount	3600.75 alve with Ca 11794.00 LMR Rate rk to Zone 1	p PN 1.6, Si 11794.00 LMR Amount A-Marykular		
SI No 65 A	Supply of CI A 100.98.461 Supply of CI D 200mm. Spec Appendix B - (8) 100.12.8 Conveying and	Description Description)- Line charging, stabilities d fixing G.I. pipes com	2.000 Valve Confor 1.000 Quantity ization& inter using 80	No ming to I No Unit connection mm G I p	S 14846 - 2 23723.65 DSOR Rate on- (b) Inter pipe	15903.30 2000, Sluice Va 23723.65 TS Amount	3600.75 alve with Ca 11794.00 LMR Rate rk to Zone 1	p PN 1.6, Si 11794.00 LMR Amount A-Marykular		
SI No 65 A	Supply of CI A 100.98.461 Supply of CI D 200mm. Spec Appendix B - (8) 100.12.8 Conveying and cost of pipes a 80 mm dia non	Description Description)- Line charging, stabilities d fixing G.I. pipes com	2.000 Valve Confor 1.000 Quantity ization& inter using 80 nplete with G work.	No ming to I No Unit connection mm G I p	S 14846 - 2 23723.65 DSOR Rate on- (b) Inter pipe	15903.30 2000, Sluice Va 23723.65 TS Amount	3600.75 alve with Ca 11794.00 LMR Rate rk to Zone 1	p PN 1.6, Si 11794.00 LMR Amount A-Marykular		
SI No 65 A	Supply of CI A 100.98.461 Supply of CI D 200mm. Spec Appendix B - (8) 100.12.8 Conveying and cost of pipes a 80 mm dia non	Description Description)- Line charging, stabilities d fixing G.I. pipes com and fittings - External so	2.000 Valve Confor 1.000 Quantity ization& inter using 80 nplete with G work.	No ming to I No Unit connection mm G I p	S 14846 - 2 23723.65 DSOR Rate on- (b) Inter pipe	15903.30 2000, Sluice Va 23723.65 TS Amount	3600.75 alve with Ca 11794.00 LMR Rate rk to Zone 1	p PN 1.6, Siz 11794.00 LMR Amount A-Marykular		



2	100.31.1.							
	-	ng and fixing C.I. slu	,	., .	0	•		
		ding the cost of valv	· ·	•	l will be pai	d separately) :	80 mm diar	neter. Class
	Observed	Data derived from it	em no.18.31.of DAI	۲ ۲			I I	
			1.000	Nos	613.74	613.74	673.30	673.30
3	od190319	/2018_2019						
	Supply of	80mm GI pipe(m)						
			250.000	metre	830.16	207540.00	789.80	197450.00
4	od3655/20)19_2020						
		or 80 mm GI(m) pipe	e - 10 % of value of	pipe sup	ply.			
			10	1.25	1		,	
			1.000	set	17272.5	17272.50	17272.50	17272.50
5	100.98.45	7	. 6.1	100	-			
Ũ		CI Double Flanged S	Sluice Valve Confor	ming to I	S 14846 - 2	2000, Sluice Va	alve with Ca	p PN 1.6, Siz
	80mm.			-				•
			1.000	No	6624.05	6624.05	3131.05	3131.05
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
66	Appendix	B - (8)- Line charging u	g, stabilization& inte ising 150 mm D I K		22.00		work to Lab	bakada Tank
1	100.1.1			100.00				
I		g trenches of require	Kerala Wa				r sockets la	nd dressing
		ming of bottoms, de						-
		quired, in layers no			Ū		-	•
	ramming,	watering, etc. and	disposing of surpl	us excav	vated soil a	s directed, with	thin a lead	of 50 m :
	All kinds of	of soil						
	(Ref. Item	No. 2.10.1 of DSR)	I				,	
			115.920	cum	579.85	67216.21	592.25	68653.62
							1 1	
2	100.1.5							
2	100.1.5 Excavatin	a trenches of require		cables, e	tc includinc	excavation for	r sockets, a	nd dressing
2	Excavatin	g trenches of require	ed width for pipes, o					0
2	Excavatin sides, ram	• •	ed width for pipes, o	cluding g	etting out th	ne excavated s	oil, and the	n returning th
2	Excavatin sides, ran soil as re ramming,	nming of bottoms, de quired, in layers no watering, etc. and	ed width for pipes, o epth up to 1.5 m, ind t exceeding 20 cm	cluding g n in dept	etting out th h, including	ne excavated s g consolidating	oil, and the geach depo	n returning th sited layer b
2	Excavatin sides, ram soil as re ramming, Ordinary f	nming of bottoms, de quired, in layers no watering, etc. and Rock.	ed width for pipes, o epth up to 1.5 m, ind t exceeding 20 cm	cluding g n in dept	etting out th h, including	ne excavated s g consolidating	oil, and the geach depo	n returning th sited layer b
2	Excavatin sides, ram soil as re ramming, Ordinary f	nming of bottoms, de quired, in layers no watering, etc. and	ed width for pipes, o epth up to 1.5 m, ind t exceeding 20 cm	cluding g n in dept	etting out th h, including	ne excavated s g consolidating	oil, and the geach depo	n returning th sited layer b



 Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation (not exceeding 1.5 m in width or 10 m2 on plan), including dressing of sides and rammina 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil lead of 50 m. Medium Rock (Requiring Blasting) New Data derived from Item No.2.9.2 of DAR. 	ing of bot	toms, lift up to
11.592 cum 749.12 8683.80 1	021.25	11838.33
 4 100.1.13 "Excavating trenches of required width for pipes, cables, etc including excavation for so sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, soil as required, in layers not exceeding 20 cm in depth, including consolidatingea ramming, watering, etc. and disposing of surplus excavated soil as directed, within Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 0f DSR) 	, and ther ach depo	n returning the sited layer by
4.968 cum 1624.48 8070.42 2	2180.20	10831.23
 5 100.8.1 Fencing one side of trenches, 1.50 m height with two rows of 10 cm plastic caution tag pole (girth 15cm to 24cm) fixed at 2 m intervals. (Data Prepared based on PWD SDB - Item No.1009) 	pe in vert	ical casuarina
180.000 metre 28.82 5187.60	29.10	5238.00
6 50.2.25.1 Filling with contractor's own earth (excluding rock) in trenches, plinth, sides of founda exceeding 20 cm in depth, consolidating each deposited layer by ramming and waterin lift up to 1.5 m as per direction of site Engineer-in-charge 5.000 cum 548.85 2744.25 3		
 7 100.14.2 Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming cost of pipes and specials : 150 mm dia Ductile Iron Class K-9 Pipes Data derived from 18.72.16 in DAR 	g to IS: 8:	329 excluding
180.000 metre 91.5 16470.00	86.65	15597.00
	I	
8 18.70.2 Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pip joints and including the cost of rubber gasket:150 mm dia pipes		
Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pip joints and including the cost of rubber gasket:150 mm dia pipes	bes incluc	ding testing of 5196.80
Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pip joints and including the cost of rubber gasket:150 mm dia pipes	185.60	5196.80

10	18.67.1 Providing mm dia	and laying S & S C.I. Standa	ird specia	ls suitabl	e for mech	anical jointing a	as per IS 1:	3382:Upto 300
			0.310	quintal	14708.65	4559.68	14043.50	4353.49
11		and laying S&S.C.I Standard pinting as per IS: 1538:UPto 30	•		ees, bends,	collars tapers	and caps e	tc., suitable for
			2.120	quintal	9150.76	19399.61	8747.05	18543.75
12	18.83.4 Labour fo	r cutting C.I. pipe with steel sa	w.150 mr	n diamete	er C.I. pipe			
			8.000	Each Cut	337.12	2696.96	348.55	2788.40
13	150 mm o	50mm DI/CI pipeline with pota dia I Data derived from item no.10			juired test p	pressure		
			180.000	metre	32.88	5918.40	34.20	6156.00
14	100.98.1 ² Supply of	I6 DI K9 Pipe Conforming to IS	8329/2000), 150mm	Dia.	er i		
		Ker	180.000	metre	1890,44	V 340279.20	1800.35	324063.00
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
67	Appendix	B - (8)- Line charging, stabiliz Labba			ion - (d) Int ı D I k9 pipe		ork to distri	bution line at
1	sides, rar soil as re ramming All kinds o	ng trenches of required width f nming of bottoms, depth up to equired, in layers not exceed , watering, etc. and disposing of soil n No. 2.10.1 of DSR)	1.5 m, in ing 20 cn	cluding g n in deptl	etting out th n, including	ne excavated s g consolidating	oil, and the jeach depo	n returning the osited layer by
			67.200	cum	579.85	38965.92	592.25	39799.20
2	sides, rar soil as re ramming Ordinary	ng trenches of required width f nming of bottoms, depth up to equired, in layers not exceed , watering, etc. and disposing Rock. n No. 2.13.1 of DSR)	1.5 m, in ing 20 cn	cluding g n in deptl	etting out th n, including	ne excavated s g consolidating	oil, and the jeach depo	n returning the osited layer by
	1		19.201	cum	842.1	16169.16	1033.20	19838.47



3	100.2.1 Excavation work by mechanical means (not exceeding 1.5 m in width or 10 m2 1.5 m, including getting out the excava lead of 50 m. Medium Rock (Requiring Blasting) New Data derived from Item No.2.9.2 of	on plan), ated soil a	including	dressing o	f sides and ram	nming of bo	ttoms, lift up to
		6.721	cum	749.12	5034.84	1021.25	6863.82
4	100.1.13 "Excavating trenches of required width sides, ramming of bottoms, depth up to soil as required, in layers not exceed ramming, watering, etc. and disposing Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR)	1.5 m, in ing 20 cn	cluding ge n in depth	etting out th n, including	ne excavated s g consolidating	oil, and the geach depo	en returning the osited layer by
		2.880	cum	1624.48	4678.50	2180.20	6278.98
5	100.8.1 Fencing one side of trenches, 1.50 m h pole (girth 15cm to 24cm) fixed at 2 m (Data Prepared based on PWD SDB - In	intervals.		s of 10 cm	plastic caution	tape in ver	rtical casuarina
		100.000	metre	28.82	2882.00	29.10	2910.00
6	50.2.25.1 Filling with contractor's own earth (exc exceeding 20 cm in depth, consolidatin lift up to 1.5 m as per direction of site E	g each de	posited la				
7	100.14.4 Conveying and laying S&S Centrifugat cost of pipes and specials : 250 mm dia Ductile Iron Class K-9 Pipe Data derived from 18.72.18 in DAR		Spun) / D	uctile Iron	Pipes conform	ing to IS: 8	3329 excluding
		100.000	metre	170.19	17019.00	158.35	15835.00
8	18.70.4 Providing push - on-joints to Centrifug joints and including the cost of rubber	• • •	,	•	or Ductile Iron	Pipes inclu	ding testing of
		18.000	joint	329.84	5937.12	328.70	5916.60
9	18.30.6 Providing flanged joints to double flar diameter pipe	nged C.I./	D.I pipes	s and spec	sials, including	testing of	joints:250 mm
		5.000	Nos	595.56	2977.80	727.55	3637.75

10	18.67.1 Providing and laying S & S mm dia	S C.I. Standa	ard specia	ls suitabl	e for mecha	anical jointing	as per IS 13	382:Upto 30
			0.720	quintal	14708.65	10590.23	14043.50	10111.32
11	18.66.1 Providing and laying S&S.(flanged jointing as per IS:		•		ees, bends,	collars tapers	and caps et	c., suitable fo
			1.360	quintal	9150.76	12445.03	8747.05	11895.99
12	18.83.6 Labour for cutting C.I. pipe	with steel sa	aw.250 mr	n diamete	er C.I. pipe			
			5.000	Each Cut	559.11	2795.55	578.20	2891.00
13	100.35.4 Testing 250mm DI/CI pipel 250 mm dia Observed Data derived from	61			100	pressure .		
		151	100.000	metre	52.99	5299.00	55.60	5560.00
	"Conveying and fixing C.I. etc. excluding the cost of 250 mm diameter. Class I" Data derived from item no.	valve (the ta	ail pieces i a la		-	•		
		РП	1.000	Nos	2304.82	2304.82	2564.25	2564.25
15	100.32.3 Conveying and fixing C I excluding the cost of air v 50 mm Double acting Air V Data derived from item no.	alve(the tail alve	pieces if		•	•	uts,rubber ir 259.35	nsertions et 259.35
			1.000	INUS	229.21	229.21	209.00	209.00
16	100.98.118 Supply of DI K9 Pipe Confe	orming to IS	8329/2000), 250mm	Dia.			
			100.000	metre	3616.52	361652.00	3438.05	343805.00
17	100.98.462 Supply of CI Double Flange 250mm.	ed Sluice Va	lve Confo	rming to I	S 14846 - 2	2000, Sluice Va	alve with Cap	o PN 1.6, Siz
			1.000	No	34361.8	34361.80	18345.20	18345.20
18	100.98.444 Supply of CI Air Valve, Cor	nforming to I	S 14848 -	2000, Sir	igle Orifice,	Large Orifice	Type S2, Siz	ze 50mm.

			1.000	No	6110.65	6110.65	1760.95	1760.95
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
68	Appendix	B - (8)- Line charging, stabili	zation& int	erconnec	tion - (e) In	terconnection t	o Kochutho	ovala Gravitv
			ain using		. ,			
1	cost of pi) ng and fixing G.I. pipes comp pes and fittings - External wo lia nominal bore		G.I. fitting	s including	trenching and	refilling etc	. but excluding
		Data derived from item no.18	3.12 of DA	R				
			100.000	metre	274.99	27499.00	277.80	27780.00
2	4.1.3		100.000	mono	27 1.00	27 100.00	211.00	21100.00
L	Providing	and laying in position ceme g - All work up to plinth leve size)		- M	-	-		•
			2.049	cum	8340.93	17090.57	10609.70	21739.28
3		g and shuttering including st etc for mass concrete	rutting, et	c. and re	moval of fo	orm for:Founda	ations, foot	ings, bases of
			10.241	sqm	350.0	3584.35	347.55	3559.26
4		5/2018_2019 125mm GI(m) pipe Ker	ala Wa	ater A	uthorit	У		
			100.000	metre	1434.45	143445.00	1434.45	143445.00
5		019_2020 for 125 mm GI(m) pipe - 10 %	of value c	of pipe su	oply.			
			1.000	set	14345.0	14345.00	14345.00	14345.00
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
69	Appendix	x B - (8)- Line charging, stabili Kochuthov			()		ork to Dist	ribution from
1	sides, ran soil as re ramming, All kinds c	g trenches of required width nming of bottoms, depth up to quired, in layers not exceed watering, etc. and disposin of soil No. 2.10.1 of DSR)	o 1.5 m, in ling 20 cn	cluding g n in deptl	etting out tl n, including	ne excavated s g consolidating	oil, and the leach depo	n returning the osited layer by
			67.200	cum	579.85	38965.92	592.25	39799.20



	100.1.5									
2	Excavating trenches of required wid	th for pipes	cables e	te includine	n excavation fo	r sockets la	nd dressing o			
	sides, ramming of bottoms, depth up			-			-			
	soil as required, in layers not exce			-			-			
	ramming, watering, etc. and dispos	-			-	•				
		sing of surpi	us excav		as unected, wi	unin a leau	01 50 111 .			
	Ordinary Rock.									
	(Ref. Item No. 2.13.1 of DSR)									
		19.201	cum	842.1	16169.16	1033.20	19838.47			
3	100.2.1									
	Excavation work by mechanical mea	ns (Hydraulio	c excavat	or) / manua	al means in fou	ndation trer	hches or drains			
	(not exceeding 1.5 m in width or 10 r	m2 on plan),	including	dressing o	f sides and ram	nming of bo	ttoms, lift up to			
	1.5 m, including getting out the exc		-	-		-	-			
	lead of 50 m.		1.000	•			,			
	Medium Rock (Requiring Blasting)									
	New Data derived from Item No.2.9.2	2 of DAR.								
		6.721	cum	749.12	5034.84	1021.25	6863.82			
		0.721	oun	110.12	0001.01	1021.20	0000.02			
4	100.1.13									
	E THE STREAM FLITS A									
	"Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing o									
	sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the									
	sides, ramming of bottoms, depth up soil as required, in layers not exce						-			
		eding 20 cm	n in deptl	n, including	g consolidating	geach depo	sited layer by			
	soil as required, in layers not exce	eding 20 cm	n in deptl	n, including	g consolidating	geach depo	sited layer by			
	soil as required, in layers not exce ramming, watering, etc. and dispose Hard Rock(Blasting Prohibited)	eeding 20 cm sing of surpl	n in deptl us excav	n, including ated soil a	g consolidating as directed, wir	geach depo	sited layer by			
	soil as required, in layers not exce ramming, watering, etc. and dispose Hard Rock(Blasting Prohibited)	eeding 20 cm sing of surpl erala Wa	n in deptl us excav	n, including ated soil a uthorit	g consolidating as directed, wir	geach depo thin a lead	osited layer by of 50 m :			
	soil as required, in layers not exce ramming, watering, etc. and dispose Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR)	eeding 20 cm sing of surpl	n in deptl us excav	n, including ated soil a	g consolidating as directed, wir	geach depo	sited layer by			
5	soil as required, in layers not excer ramming, watering, etc. and dispose Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR)	eeding 20 cm sing of surpl erala Wa 2.880	n in deptius excav	n, including rated soil a uthorit 1624.48	g consolidating as directed, with 4678.50	geach depo thin a lead 2180.20	of 50 m : 6278.98			
5	soil as required, in layers not excer ramming, watering, etc. and dispose Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR)	eeding 20 cm sing of surpl 2.880 m height with	n in deptius excav	n, including rated soil a uthorit 1624.48	g consolidating as directed, with 4678.50	geach depo thin a lead 2180.20	of 50 m : 6278.98			
5	soil as required, in layers not excer ramming, watering, etc. and dispose Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR)	eeding 20 cm sing of surpl 2.880 m height with	n in deptius excav	n, including rated soil a uthorit 1624.48	g consolidating as directed, with 4678.50	geach depo thin a lead 2180.20	of 50 m : 6278.98			
5	soil as required, in layers not excer ramming, watering, etc. and dispose Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR)	eeding 20 cm sing of surpl 2.880 m height with m intervals.	n in deptius us excav <u>eter A</u> cum	n, including rated soil a uthorit 1624.48	g consolidating as directed, with 4678.50	geach depo thin a lead 2180.20	of 50 m : 6278.98			
5	soil as required, in layers not excer ramming, watering, etc. and dispose Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m pole (girth 15cm to 24cm) fixed at 2	eeding 20 cm sing of surpl 2.880 m height with m intervals.	n in deptius excav	n, including rated soil a uthorit 1624.48	g consolidating as directed, with 4678.50	geach depo thin a lead 2180.20	of 50 m : 6278.98			
	soil as required, in layers not excer ramming, watering, etc. and dispose Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m pole (girth 15cm to 24cm) fixed at 2 (Data Prepared based on PWD SDB	eeding 20 cm sing of surpl 2.880 m height with m intervals. - Item No.10	n in deptius excav	n, including rated soil a uthorit 1624.48 s of 10 cm	g consolidating as directed, wir 4678.50 plastic caution	geach depo thin a lead 2180.20 tape in ver	of 50 m : 6278.98			
5	soil as required, in layers not excer ramming, watering, etc. and dispose Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m pole (girth 15cm to 24cm) fixed at 2 (Data Prepared based on PWD SDB	eeding 20 cm sing of surpl 2.880 m height with m intervals. - Item No.10 100.000	n in depti us excav cum two row 009) metre	n, including rated soil a uthorit 1624.48 s of 10 cm 28.82	g consolidating as directed, with 4678.50 plastic caution 2882.00	geach depo thin a lead 2180.20 tape in ver 29.10	osited layer b of 50 m : 6278.98 tical casuarina 2910.00			
	soil as required, in layers not excer ramming, watering, etc. and dispose Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m pole (girth 15cm to 24cm) fixed at 2 (Data Prepared based on PWD SDB 50.2.25.1 Filling with contractor's own earth (eeding 20 cm sing of surpl 2.880 m height with m intervals. - Item No.10 100.000 excluding roo	a in deptius excaver a ter A cum a two row 009) metre ck) in trer	n, including rated soil a uthorit 1624.48 s of 10 cm 28.82 nches, plint	g consolidating as directed, with 4678.50 plastic caution 2882.00	geach depo thin a lead 2180.20 tape in ver 29.10	esited layer by of 50 m : 6278.98 tical casuarina 2910.00 c. in layers no			
	soil as required, in layers not excer ramming, watering, etc. and dispose Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m pole (girth 15cm to 24cm) fixed at 2 (Data Prepared based on PWD SDB 50.2.25.1 Filling with contractor's own earth (exceeding 20 cm in depth, consolidation	eeding 20 cm sing of surpl 2.880 m height with m intervals. - Item No.10 100.000 excluding roo ating each de	a in deptius excaver a ter A cum a two row 009) metre ck) in tren	n, including rated soil a uthorit 1624.48 s of 10 cm 28.82 nches, plint	g consolidating as directed, with 4678.50 plastic caution 2882.00	geach depo thin a lead 2180.20 tape in ver 29.10	of 50 m : 6278.98 tical casuarina 2910.00 c. in layers no			
	soil as required, in layers not excer ramming, watering, etc. and dispose Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m pole (girth 15cm to 24cm) fixed at 2 (Data Prepared based on PWD SDB 50.2.25.1 Filling with contractor's own earth (eeding 20 cm sing of surpl 2.880 m height with m intervals. - Item No.10 100.000 excluding roo ating each de	a in deptius excaver a ter A cum a two row 009) metre ck) in tren	n, including rated soil a uthorit 1624.48 s of 10 cm 28.82 nches, plint	g consolidating as directed, with 4678.50 plastic caution 2882.00	geach depo thin a lead 2180.20 tape in ver 29.10	of 50 m : 6278.98 tical casuarina 2910.00 c. in layers no			
	soil as required, in layers not excer ramming, watering, etc. and dispose Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m pole (girth 15cm to 24cm) fixed at 2 (Data Prepared based on PWD SDB 50.2.25.1 Filling with contractor's own earth (exceeding 20 cm in depth, consolidation	eeding 20 cm sing of surpl 2.880 m height with m intervals. - Item No.10 100.000 excluding roo ating each de	a in deptius excaver a ter A cum a two row 009) metre ck) in tren	n, including rated soil a uthorit 1624.48 s of 10 cm 28.82 nches, plint	g consolidating as directed, with 4678.50 plastic caution 2882.00	geach depo thin a lead 2180.20 tape in ver 29.10	of 50 m : 6278.98 tical casuarina 2910.00 c. in layers no			
6	soil as required, in layers not excer ramming, watering, etc. and dispose Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m pole (girth 15cm to 24cm) fixed at 2 (Data Prepared based on PWD SDB 50.2.25.1 Filling with contractor's own earth (exceeding 20 cm in depth, consolidat lift up to 1.5 m as per direction of site	eeding 20 cm sing of surpl 2.880 m height with m intervals. - Item No.10 100.000 excluding roo ating each de e Engineer-ir	a in deptius excaver ater A cum two row 009) metre ck) in tren posited la p-charge	n, including rated soil a uthorit 1624.48 s of 10 cm 28.82 nches, plint ayer by ran	g consolidating as directed, with 4678.50 plastic caution 2882.00 th, sides of four noming and wate	geach depo thin a lead 2180.20 tape in ver 29.10 ndations et ering, lead u	of 50 m : 6278.98 tical casuarina 2910.00 c. in layers no up to 50 m and			
	soil as required, in layers not excer ramming, watering, etc. and dispose Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m pole (girth 15cm to 24cm) fixed at 2 (Data Prepared based on PWD SDB 50.2.25.1 Filling with contractor's own earth (exceeding 20 cm in depth, consolidat lift up to 1.5 m as per direction of site 100.14.3	eeding 20 cm sing of surpl 2.880 m height with m intervals. - Item No.10 100.000 excluding roo ating each de e Engineer-in 5.000	a in deptius excav ater A cum a two row (009) metre (009) metre (cum)	n, including rated soil a 1624.48 s of 10 cm 28.82 nches, plint ayer by ran 548.85	4678.50 plastic caution 2882.00 th, sides of four nming and wate 2744.25	geach depo thin a lead 2180.20 tape in ver 29.10 ndations et ering, lead u 342.40	esited layer by of 50 m : 6278.98 tical casuarina 2910.00 c. in layers no up to 50 m and 1712.00			
6	soil as required, in layers not excer ramming, watering, etc. and dispose Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m pole (girth 15cm to 24cm) fixed at 2 (Data Prepared based on PWD SDB 50.2.25.1 Filling with contractor's own earth (exceeding 20 cm in depth, consolidat lift up to 1.5 m as per direction of site 100.14.3 Conveying and laying S&S Centrifu	eeding 20 cm sing of surpl 2.880 m height with m intervals. - Item No.10 100.000 excluding roo ating each de e Engineer-in 5.000	a in deptius excav ater A cum a two row (009) metre (009) metre (cum)	n, including rated soil a 1624.48 s of 10 cm 28.82 nches, plint ayer by ran 548.85	4678.50 plastic caution 2882.00 th, sides of four nming and wate 2744.25	geach depo thin a lead 2180.20 tape in ver 29.10 ndations et ering, lead u 342.40	esited layer by of 50 m : 6278.98 tical casuarina 2910.00 c. in layers no up to 50 m and 1712.00			
6	soil as required, in layers not excer ramming, watering, etc. and dispose Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m pole (girth 15cm to 24cm) fixed at 2 (Data Prepared based on PWD SDB 50.2.25.1 Filling with contractor's own earth (exceeding 20 cm in depth, consolidat lift up to 1.5 m as per direction of site 100.14.3 Conveying and laying S&S Centrifut cost of pipes and specials :	eeding 20 cm sing of surpl 2.880 m height with m intervals. - Item No.10 100.000 excluding roo ating each de e Engineer-ir 5.000	a in deptius excaver a ter A cum a two row (009) metre (009) metre (cum)	n, including rated soil a 1624.48 s of 10 cm 28.82 nches, plint ayer by ran 548.85	4678.50 plastic caution 2882.00 th, sides of four nming and wate 2744.25	geach depo thin a lead 2180.20 tape in ver 29.10 ndations et ering, lead u 342.40	esited layer by of 50 m : 6278.98 tical casuarina 2910.00 c. in layers no up to 50 m and 1712.00			
6	soil as required, in layers not excer ramming, watering, etc. and dispose Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m pole (girth 15cm to 24cm) fixed at 2 (Data Prepared based on PWD SDB 50.2.25.1 Filling with contractor's own earth (exceeding 20 cm in depth, consolidated lift up to 1.5 m as per direction of site 100.14.3 Conveying and laying S&S Centrifue cost of pipes and specials : 200 mm dia Ductile Iron Class K-9 P	eeding 20 cm sing of surpl 2.880 m height with m intervals. - Item No.10 100.000 excluding roo ating each de e Engineer-ir 5.000	a in deptius excaver a ter A cum a two row (009) metre (009) metre (cum)	n, including rated soil a 1624.48 s of 10 cm 28.82 nches, plint ayer by ran 548.85	4678.50 plastic caution 2882.00 th, sides of four nming and wate 2744.25	geach depo thin a lead 2180.20 tape in ver 29.10 ndations et ering, lead u 342.40	esited layer by of 50 m : 6278.98 tical casuarina 2910.00 c. in layers no up to 50 m and 1712.00			
6	soil as required, in layers not excer ramming, watering, etc. and dispose Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m pole (girth 15cm to 24cm) fixed at 2 (Data Prepared based on PWD SDB 50.2.25.1 Filling with contractor's own earth (exceeding 20 cm in depth, consolidat lift up to 1.5 m as per direction of site 100.14.3 Conveying and laying S&S Centrifut cost of pipes and specials :	eeding 20 cm sing of surpl 2.880 m height with m intervals. - Item No.10 100.000 excluding roo ating each de e Engineer-ir 5.000	a in deptius excaver a ter A cum a two row (009) metre (009) metre (cum)	n, including rated soil a 1624.48 s of 10 cm 28.82 nches, plint ayer by ran 548.85	4678.50 plastic caution 2882.00 th, sides of four nming and wate 2744.25	geach depo thin a lead 2180.20 tape in ver 29.10 ndations et ering, lead u 342.40	esited layer by of 50 m : 6278.98 tical casuarina 2910.00 c. in layers no up to 50 m and 1712.00			



PRICE

8	18.70.3 Providing push - on-joints to joints and including the cost of	••••		-	or Ductile Iron	Pipes inclu	ding testing o
		18.000	joint	270.11	4861.98	274.60	4942.80
9	18.30.5 Providing flanged joints to do diameter pipe	ouble flanged C.I./	D.I pipe	s and spec	sials, including	testing of	joints:200 mr
		4.000	Nos	436.83	1747.32	510.85	2043.40
10	18.67.1 Providing and laying S & S C. mm dia	I. Standard specia	ls suitabl	e for mech	anical jointing a	as per IS 1	3382:Upto 30
		0.540	quintal	14708.65	7942.67	14043.50	7583.49
11	18.66.1 Providing and laying S&S.C.I S flanged jointing as per IS: 153	C		ees, bends,	collars tapers	and caps e	tc., suitable fo
		1.960	quintal	9150.76	17935.49	8747.05	17144.22
12	18.83.5 Labour for cutting C.I. pipe with	h steel saw.200 mr	n diamete	er C.I. pipe	D)		
		5.000 Kerala Wa	Each	449.57. uthorit	2247.85 V	464.85	2324.25
13	100.35.3 Testing 200mm DI/CI pipeline 200 mm dia Observed Data derived from ite			uired test p	pressure		
		100.000	metre	41.56	4156.00	43.50	4350.00
14	4.1.3 Providing and laying in posit shuttering - All work up to pl nominal size)	ion cement concre	ete of sp	ecified gra	de excluding t	he cost of	centering an
		4.000	cum	8340.93	33363.72	10609.70	42438.80
15	5.9.1 Centering and shuttering incl columns, etc for mass concre		c. and re	moval of fo		1	
		16.000	sqm	350.0	5600.00	347.55	5560.80
				1		1	

16	Construc base,15	0 mm sid	019 CC valve chambe e wall,150mm be ng inside and ou	ottom and cov	/er slab	of chamber			
				1.000	No	42969.05	42969.05	49377.30	49377.30
17	etc. excl 200 mm	ing and fi uding the diameter.	xing C.I. sluice v cost of valve (th Class I" item no.18.31.4.	ne tail pieces in	.,	-	•		ber insertion
				1.000	Nos	1625.9	1625.90	1770.80	1770.80
18	excludin 25 mm S	ng and fix g the cos Single actii	king C I Single a t of air valve(the ng Air Valve rived from item n	tail pieces if	required	the second se		uts,rubber i	nsertions etc
	1		10	1.000	Nos	146.63	146.63	146.60	146.60
19	100.98.1 Supply o		pe Conforming to	5 IS 8329/2000), 200mm	n Dia.			
			K	era100.000	metre	U2589.08	y 258908.00	2462.40	246240.00
20	100.98.4 Supply o 200mm.		le Flanged Sluice	e Valve Confor	ming to	S 14846 - 2	2000, Sluice Va	alve with Ca	p PN 1.6, Siz
				1.000	No	23723.65	23723.65	11794.00	11794.00
21	100.98.4 Supply o		alve, Conforming	to IS 14848 - 2	2000, Sir	ngle Orifice,	Small Orifice	Гуре S1, Siz	ze 25mm.
				1.000	No	5636.75	5636.75	966.75	966.75
SI No	Spec		Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
70	Append	ix B - (8)-	Line charging, st	abilization& int Market junc			erconnection b	between Idu	kkikavala to
1	cost of p 125 mm	ing and fiz ipes and dia nomin	xing G.I. pipes co fittings - External al bore rived from item n	work.	-	s including	trenching and	refilling etc.	but excludin
						074.00	004040 50	077.00	000040.00
				950.000	metre	274.99	261240.50	277.80	263910.00



		r direction of Engineer - in	-Charge.Norr	ninai con		or richer mix (i/	c equivalen	t design r
	1		90.000	cum	2134.72	192124.80	2162.25	194602
3	0	and laying in position ce - All work up to plinth le ize)		•	•	•		-
		· ·	94.320	cum	8340.93	786716.52	10609.70	100070
4		/2018_2019 125mm GI(m) pipe	1					
	1		950.000	metre	1434.45	1362727.50	1434.45	136272
	Specials fo	or 125 mm GI(m) pipe - 10	% of value o	f pipe su	136277.5	136277.50	136277.5 0	136277
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amo
1		g and fixing G.I. pipes con					refilling etc.	but exclu
1	Conveying cost of pip 50 mm dia Observed	bes and fittings - External nominal bore Data derived from item no	nplete with G work.	.I. fitting			refilling etc.	but exclu
1	Conveying cost of pip 50 mm dia	bes and fittings - External nominal bore Data derived from item no	nplete with G work. .18.12.6 of D	.I. fitting	s including	trenching and		
	Conveying cost of pip 50 mm dia Observed Data for 10	bes and fittings - External nominal bore Data derived from item no	nplete with G work.	.I. fitting			refilling etc.	but exclu 53070.
2	Conveying cost of pip 50 mm dia Observed Data for 10 100.12.7 Conveying cost of pip 65 mm dia	bes and fittings - External nominal bore Data derived from item no 0 m g and fixing G.I. pipes con bes and fittings - External nominal bore red from item no.18.12.7 of	nplete with G work. .18.12.6 of D 300.000 nplete with G work.	.I. fitting AR metre	s including to the second seco	trenching and	176.90	53070.
	Conveying cost of pip 50 mm dia Observed Data for 10 100.12.7 Conveying cost of pip 65 mm dia Data deriv	bes and fittings - External nominal bore Data derived from item no 0 m g and fixing G.I. pipes con bes and fittings - External nominal bore red from item no.18.12.7 of	nplete with G work. .18.12.6 of D 300.000 nplete with G work.	.I. fitting AR metre	s including to the second seco	trenching and	176.90	53070.

		600.000	metre	217.74	130644.00	220.35	132210.00
4	100.12.9 Conveying and fixing G.I. pipes compl cost of pipes and fittings - External wo 100 mm dia nominal bore Observed Data derived from item no.18	ork.	-	including	trenching and	refilling etc.	. but excludiı
	Observed Data derived normitem no. It			245 49	72644.00	249.15	74445.00
_		300.000	metre	245.48	73644.00	248.15	74445.00
5	100.12.10 "Conveying and fixing G.I. pipes comp cost of pipes and fittings - External wo 125 mm dia nominal bore Observed Data derived from item no.18	rk.		s including	trenching and	refilling etc	. but excludi
		150.000	metre	274.99	41248.50	277.80	41670.00
6	5.1.3 Providing and laying in position specific shuttering, finishing and reinforcement stone aggregate 20 mm nominal size)	-				-	
	155	5.760	cum	8964.72	51636.79	11245.05	64771.49
-	1400000/0040 0040						
7	od189999/2018_2019 Supply of 50mm GI pipe (M).						
/		300.000	ater A	509.59	y 152877.00	476.20	142860.00
8	Supply of 50mm GI pipe (M).	1300.000	ater A metre	utbo.59 509.59	y 152877.00	476.20	142860.00
	Supply of 50mm GI pipe (M). Ker od190454/2018_2019	1300.000	metre	649.33	y 152877.00 E 292198.50	476.20 604.00	271800.00
	Supply of 50mm GI pipe (M). Ker od190454/2018_2019	ion		С	E		
8	Supply of 50mm GI pipe (M). Ker od190454/2018_2019 Supply 65 mm GI pipe(m) as per direct od190319/2018_2019	ion		С	E		271800.0
8	Supply of 50mm GI pipe (M). Ker od190454/2018_2019 Supply 65 mm GI pipe(m) as per direct od190319/2018_2019	450.000	metre	649.33	292198.50	604.00	
8	Supply of 50mm GI pipe (M). Ker od190454/2018_2019 Supply 65 mm GI pipe(m) as per direct od190319/2018_2019 Supply of 80mm GI pipe(m) od190456/2018_2019	450.000	metre	649.33	292198.50	604.00	271800.0
8	Supply of 50mm GI pipe (M). Ker od190454/2018_2019 Supply 65 mm GI pipe(m) as per direct od190319/2018_2019 Supply of 80mm GI pipe(m) od190456/2018_2019	ion 450.000 600.000	metre	649.33 830.16	292198.50 498096.00	604.00	271800.00 473880.00



12 od269/2019_2020

Specials for GI (m) pipes- KIIFB Ayyappancovil Gap filling works - 50mm, 65mm, 80mm, 100mm, 125mm GI(m) pipes.

			1.000	set	128868.0	128868.00	128868.0 0	128868.00
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount

72 Appendix B - (8)- Line charging, stabilization& interconnection - (i) Leak rectification works in distribution system in Zone I, II, III, IV & VI

100.47.1.3

1

Leak rectification work in 50 mm PVC (Class 2 to 6) pipe line including detecting and locating leak, earth work excavation in all kinds of soil for for exposing leak portion of the pipe including tar cutting / concrete cutting, cutting the pipe diametrically perpendicular to the axis of pipe line with out causing any damages to the remaining portion, dismantling and lifting the pipe from trenches, smoothening the cut ends, conveying the new pipe to the site, cutting and lowering new pipe in to the trenches, placing in position aligning the pipe to line and level and jointing the new pipe with the existing pipe with solvent cement or or any available joint and testing the pipe line by operating the valves concerned, and rectifying the defects if noticed and without causing any damages to the existing utilities and refilling the trenches using excavated earth in layers not exceeding 20cm depth including consolidating each layers by ramming, watering, charges for removing surplus soil from work site, including hire for tools and plant, conveyance of tools and materials, bailing out water, providing caution boards, lighting, watching, ribbon fencing, traffic controlling etc.complete as per the direction of Departmental officers including the cost of pipe and PVC specials; PVC Pipes and specials shall be of good quality and conforming to relevant standards; All Socketed Jointing.

	NUI (lla vvo	ater A	umonn	у		
		20.000	Leak	1399.52	27990.40	1417.85	28357.00
2	100.47.1.4	\mathbf{R}			H		
	Leak rectification work in 63 mm PVC (Class 2 to	6) pipe li	ne includin	g detecting and	d locating le	eak, earth work
	excavation in all kinds of soil for for ex	posing lea	ak portior	of the pip	e including tar	cutting / co	oncrete cutting,
	cutting the pipe diametrically perpend	icular to	the axis	of pipe line	e with out caus	sing any d	amages to the
	remaining portion, dismantling and lifting	ng the pip	be from tr	enches, sr	noothening the	e cut ends,	conveying the
	new pipe to the site, cutting and loweri	ng new p	ipe in to t	he trenche	s,placing in po	sition align	ing the pipe to
	line and level and jointing the new pipe	with the e	existing pi	pe with sol	vent cement or	or any ava	ilable joint and
	testing the pipe line by operating the	valves co	oncerned	, and rectif	fying the defec	ts if notice	ed and without
	causing any damages to the existing u	utilities ar	nd refilling	the trencl	hes using exca	vated eart	h in layers not
	exceeding 20cm depth including cons	solidating	each lay	vers by ran	nming, waterin	ig, charges	s for removing
	surplus soil from work site, including h	ire for too	ls and pla	ant, convey	vance of tools a	and materi	als, bailing out
	water, providing caution boards, lighting	g,watchin	g, ribbon	fencing, tr	affic controlling	g etc.comp	lete as per the
	direction of Departmental officers include	ding the c	ost of pip	e and PVC	specials; PVC	Pipes and	specials shall
	be of good quality and conforming to re	elevant sta	andards:	All Sockete	ed Jointing.		
		30.000	Leak	1692.18	50765.40	1711.40	51342.00

3 100.47.1.5

Leak rectification work in 75 mm PVC (Class 2 to 6) pipe line including detecting and locating leak, earth work excavation in all kinds of soil for for exposing leak portion of the pipe including tar cutting / concrete cutting, cutting the pipe diametrically perpendicular to the axis of pipe line with out causing any damages to the remaining portion, dismantling and lifting the pipe from trenches, smoothening the cut ends, conveying the new pipe to the site, cutting and lowering new pipe in to the trenches, placing in position aligning the pipe to line and level and jointing the new pipe with the existing pipe with solvent cement or or any available joint and testing the pipe line by operating the valves concerned, and rectifying the defects if noticed and without causing any damages to the existing utilities and refilling the trenches using excavated earth in layers not exceeding 20cm depth including consolidating each layers by ramming, watering, charges for removing surplus soil from work site, including hire for tools and plant, conveyance of tools and materials, bailing out water, providing caution boards, lighting, watching, ribbon fencing, traffic controlling etc.complete as per the direction of Departmental officers including the cost of pipe and PVC specials; PVC Pipes and specials shall be of good quality and conforming to relevant standards; PVC Pipes and specials shall be of good quality and conforming to relevant standards; All Socketed Jointing.

	contorning to relevant standards. 7 in oc		Jinting.				
		15.000	Leak	1817.26	27258.90	1837.20	27558.00
4	100.47.1.6						
	Leak rectification work in 90 mm PVC (0	Class 2 to	6) pipe li	ne includin	g detecting and	d locating le	eak, earth work
	excavation in all kinds of soil for for exp	posing lea	ak portior	of the pip	e including tar	cutting / co	oncrete cutting,
	cutting the pipe diametrically perpend	icular to	the axis	of pipe line	e with out caus	sing any d	amages to the
	remaining portion, dismantling and lifting	ng the pip	e from tr	enches, sr	noothening the	e cut ends,	conveying the
	new pipe to the site, cutting and lowering	ng new pi	pe in to t	he trenche	s,placing in po	sition align	ing the pipe to
	line and level and jointing the new pipe		• •	•		•	
	testing the pipe line by operating the	valves co	ncerned	, and rectif	ying the defea	cts if notice	ed and without
	causing any damages to the existing u	utilities an	d refilling	g the trencl	nes using exca	avated eart	h in layers not
	exceeding 20cm depth including cons	olidating	each lay	ers by ran	nming, waterir	ng, charges	s for removing
	surplus soil from work site, including hi	ire for too	Is and pl	ant, convey	ance of tools	and materi	als, bailing out
	water, providing caution boards, lighting	g,watchin	g, ribbon	fencing, tr	affic controlling	g etc.comp	lete as per the
	direction of Departmental officers includ	ding the c	ost of pip	e and PVC	specials; PVC	Pipes and	specials shall
	be of good quality and conforming to re	elevant sta	andards:	All Sockete	ed Jointing.	1	
		15.000	Leak	2046.8	30702.00	2060.20	30903.00



5 100.47.2.1

Leak rectification work in 90 mm PVC (Class 2 to 6) pipe line including detecting and locating leak, earth work excavation in all kinds of soil for for exposing leak portion of the pipe including tar cutting / concrete cutting, cutting the pipe diametrically perpendicular to the axis of pipe line with out causing any damages to the balance portion, dismantling and lifting the pipe from trenches, smoothening the cut ends, conveying the new pipe, cutting and lowering new pipe in to the trenches, placing in position aligning the pipe to line and level and jointing the new pipe with the existing pipe with solvent cement or repairable joint and testing the pipe line by operating the valves concerned, and rectifying the defects if noticed and refilling the trenches in layers not exceeding 20cm depth including consolidating each layers by ramming, watering, charges for removing surplus soil from work site without causing any damages to the existing utilities, including hire for tools and plant, conveyance of tools and materials, bailing out water, providing caution boards,lighting, ribbon fencing, watching, traffic control etc.complete as per the direction of Departmental officers, including the cost of pipe & specials but excluding the cost of CIR Joints; PVC Pipes and specials shall be of good quality and conforming to relevant standards: Socket & CIR Jointing.

7.000 2294.7 16062.90 2317.85 16224.95 Leak 100.47.2.2 6 Leak rectification work in 110 mm PVC (Class 2 to 6) pipe line including detecting and locating leak, earth work excavation in all kinds of soil for for exposing leak portion of the pipe including tar cutting / concrete cutting, cutting the pipe diametrically perpendicular to the axis of pipe line with out causing any damages to the balance portion, dismantling and lifting the pipe from trenches, smoothening the cut ends, conveying the new pipe, cutting and lowering new pipe in to the trenches, placing in position aligning the pipe to line and level and jointing the new pipe with the existing pipe with solvent cement or repairable joint and testing the pipe line by operating the valves concerned, and rectifying the defects if noticed and refilling the trenches in layers not exceeding 20cm depth including consolidating each layers by ramming, watering, charges for removing surplus soil from work site without causing any damages to the existing utilities, including hire for tools and plant, conveyance of tools and materials, bailing out water, providing caution boards, lighting, ribbon fencing, watching, traffic control etc.complete as per the direction of Departmental officers, including the cost of pipe & specials but excluding the cost of CIR Joints; PVC Pipes and specials shall be of good quality and conforming to relevant standards: Socket & CIR Jointing.

10.000

100.47.2.3

7

Leak rectification work in 140 mm PVC (Class 2 to 6) pipe line including detecting and locating leak, earth work excavation in all kinds of soil for for exposing leak portion of the pipe including tar cutting / concrete cutting, cutting the pipe diametrically perpendicular to the axis of pipe line with out causing any damages to the balance portion, dismantling and lifting the pipe from trenches, smoothening the cut ends, conveying the new pipe, cutting and lowering new pipe in to the trenches, placing in position aligning the pipe to line and level and jointing the new pipe with the existing pipe with solvent cement or repairable joint and testing the pipe line by operating the valves concerned, and rectifying the defects if noticed and refilling the trenches in layers not exceeding 20cm depth including consolidating each layers by ramming, watering, charges for removing surplus soil from work site without causing any damages to the existing utilities, including hire for tools and plant, conveyance of tools and materials, bailing out water, providing caution boards,lighting, ribbon fencing, watching, traffic control etc.complete as per the direction of Departmental officers, including the cost of pipe & specials but excluding the cost of CIR Joints; PVC Pipes and specials shall be of good quality and conforming to relevant standards: Socket & CIR Jointing.

Leak

2679.96

26799.60

2702.20

27022.00



						1	
		10.000	Leak	3225.99	32259.90	3250.70	32507.00
8	100.47.2.4						
	Leak rectification work in 160 mm PV	C (Class 2	2 to 6) pig	be line incl	uding detecting	g and locat	ting leak, ear
	work excavation in all kinds of soil fo	•			-	-	•
	cutting, cutting the pipe diametrically	•	-	•		-	•
						-	
	the balance portion, dismantling and li	• ·	•		-		
	new pipe, cutting and lowering new pip	e in to the	trenches,	placing in placing in place	position aligning	g the pipe t	o line and lev
	and jointing the new pipe with the exist	ing pipe w	ith solven	t cement o	r repairable joir	nt and testin	ng the pipe li
	by operating the valves concerned, an	d rectifying	g the defe	cts if notic	ed and refilling	the trenche	es in layers r
	exceeding 20cm depth including con	solidating	each lay	vers by rar	nming, waterir	ng, charges	s for removi
	surplus soil from work site without cau	using any o	damages	to the exis	sting utilities, ir	cluding hir	e for tools a
	plant, conveyance of tools and materia	als, bailing	out wate	r, providin	g caution board	s,lighting,	ribbon fencii
	watching, traffic control etc.complete a	-		•	-		
	specials but excluding the cost of CIR			-		-	
	to relevant standards: Socket & CIR Jo		o r ipes a		o on go	ou quanty t	
	to relevant standards. Socket & Cirk St	inturig.		-			
		56.000	Leak	3690.21	206651.76	3717.85	208199.60
9	100.49.1.2						
9			(a di la sina di a alc		1.0
	Rectification of joint leakages in 150m					-	
	side of the joint) including earth work				the stand sector and	-	-
	including tar cutting / concrete cutting	g, by cutti	ng and re	emoving a	portion of pipe	e from the	damaged jo
	without causing any damages to the I	remaining	portion o	f the line a	and specials ar	d replacing	g the pipe w
	mechanical and tyton joint after cleani	ng the end	ds, center	ing the pip	e, providing the	e joints, tes	sting the line
	the required test pressure, rectifying a	any defects	s noticed	and refillin	g the trenches	using exca	avated earth
	K AT						
	layers not exceeding 20cm depth incl	luding con	solidating	g each laye	ers by ramming	g, watering	
		-					, removing t
	surplus soil from the work site, withou	t causing	any dama	ages to an	y other utilities	, including	, removing t the charges
	surplus soil from the work site, withou hire and conveyance of tools, plants ar	it causing	any dama Is to the le	ages to any eak site, ba	y other utilities ailing out water,	, including lighting, w	, removing t the charges atching, ribb
	surplus soil from the work site, withou hire and conveyance of tools, plants ar fencing, caution boards, traffic divers	it causing	any dama Is to the le	ages to any eak site, ba	y other utilities ailing out water,	, including lighting, w	, removing t the charges atching, ribb
	surplus soil from the work site, withou hire and conveyance of tools, plants ar	it causing	any dama Is to the le	ages to any eak site, ba	y other utilities ailing out water,	, including lighting, w	, removing the charges atching, ribb
	surplus soil from the work site, withou hire and conveyance of tools, plants ar fencing, caution boards, traffic divers	it causing	any dama Is to the le	ages to any eak site, ba	y other utilities ailing out water,	, including lighting, w	, removing the charges atching, ribb
10	surplus soil from the work site, withou hire and conveyance of tools, plants ar fencing, caution boards, traffic divers departmental officers etc. complete.	t causing nd materia ion but ex	any dama Is to the lo cluding c	ages to an eak site, ba ost of mec	y other utilities ailing out water, hanical joint ai	, including lighting, w nd as per t	, removing the charges ratching, ribbo
10	surplus soil from the work site, withou hire and conveyance of tools, plants ar fencing, caution boards, traffic divers departmental officers etc. complete.	t causing nd materia ion but ex	any dama Is to the li cluding c Leak	ages to an eak site, ba ost of mec 5858.48	y other utilities ailing out water, hanical joint an 29292.40	, including lighting, w nd as per t 5953.75	, removing the charges ratching, ribb the direction 29768.75
10	surplus soil from the work site, withou hire and conveyance of tools, plants ar fencing, caution boards, traffic divers departmental officers etc. complete.	nt causing and materia ion but ex 5.000 m DI Pipe	any dama Is to the lo cluding c Leak (cutting, r	ages to any eak site, ba ost of mec 5858.48 emoving a	y other utilities ailing out water, hanical joint a 29292.40 nd laying back	, including lighting, w nd as per t 5953.75 a length of	, removing t the charges atching, ribb he direction 29768.75 1.0m from o
10	surplus soil from the work site, withou hire and conveyance of tools, plants ar fencing, caution boards, traffic divers departmental officers etc. complete. 100.49.1.3 Rectification of joint leakages in 200mr side of the joint) including earth work	t causing nd materia ion but ex 5.000 m DI Pipe	any dama Is to the lo cluding c Leak (cutting, r on in all	ages to any eak site, ba ost of mec 5858.48 emoving an kinds of so	y other utilities ailing out water, hanical joint an 29292.40 nd laying back bil for exposing	, including lighting, w nd as per t 5953.75 a length of g leak porti	, removing t the charges atching, ribb he direction 29768.75 1.0m from o ion of the pi
10	surplus soil from the work site, withou hire and conveyance of tools, plants ar fencing, caution boards, traffic divers departmental officers etc. complete.	t causing nd materia ion but ex 5.000 m DI Pipe c excavation g, by cutti	any dama Is to the lo cluding c Leak (cutting, r on in all ng and re	ages to any eak site, ba ost of mec 5858.48 emoving any kinds of so emoving a	y other utilities ailing out water, hanical joint an 29292.40 nd laying back bil for exposing portion of pipe	, including lighting, w nd as per t 5953.75 a length of g leak porti e from the	, removing t the charges atching, ribb he direction 29768.75 1.0m from o ion of the pi damaged jo
10	surplus soil from the work site, withou hire and conveyance of tools, plants ar fencing, caution boards, traffic divers departmental officers etc. complete. 100.49.1.3 Rectification of joint leakages in 200mr side of the joint) including earth work	t causing nd materia ion but ex 5.000 m DI Pipe c excavation g, by cutti	any dama Is to the lo cluding c Leak (cutting, r on in all ng and re	ages to any eak site, ba ost of mec 5858.48 emoving any kinds of so emoving a	y other utilities ailing out water, hanical joint an 29292.40 nd laying back bil for exposing portion of pipe	, including lighting, w nd as per t 5953.75 a length of g leak porti e from the	, removing t the charges atching, ribb he direction 29768.75 1.0m from o ion of the pi damaged jo
10	surplus soil from the work site, withou hire and conveyance of tools, plants ar fencing, caution boards, traffic divers departmental officers etc. complete.	t causing nd materia ion but ex 5.000 m DI Pipe c excavation g, by cuttion remaining	any dama Is to the lo cluding c Leak (cutting, r on in all ng and re portion o	ages to any eak site, ba ost of mec 5858.48 emoving a kinds of so emoving a f the line a	y other utilities alling out water, hanical joint an 29292.40 nd laying back bil for exposing portion of pipe and specials ar	, including lighting, w nd as per t 5953.75 a length of g leak porti e from the nd replacing	, removing t the charges atching, ribb he direction 29768.75 1.0m from o ion of the pi damaged jo g the pipe w
10	surplus soil from the work site, withou hire and conveyance of tools, plants ar fencing, caution boards, traffic divers departmental officers etc. complete. 100.49.1.3 Rectification of joint leakages in 200mr side of the joint) including earth work including tar cutting / concrete cutting without causing any damages to the p	t causing and materia ion but ex 5.000 m DI Pipe c excavation g, by cuttion remaining ing the end	any dama ls to the lo cluding c Leak (cutting, r on in all ng and re portion o ds, center	emoving a kinds of so emoving a f the line a ing the pip	y other utilities ailing out water, hanical joint an 29292.40 nd laying back bil for exposing portion of pipe and specials ar e, providing the	, including lighting, w nd as per t 5953.75 a length of g leak porti e from the id replacing e joints, tes	, removing t the charges atching, ribb he direction 29768.75 1.0m from o ion of the pi damaged jo g the pipe w sting the line
10	surplus soil from the work site, without hire and conveyance of tools, plants ar fencing, caution boards, traffic divers departmental officers etc. complete. 100.49.1.3 Rectification of joint leakages in 200mr side of the joint) including earth work including tar cutting / concrete cutting without causing any damages to the mechanical and tyton joint after cleaning the required test pressure, rectifying a	t causing and materia ion but ex 5.000 m DI Pipe c excavations g, by cuttion remaining any defects	any dama ls to the lo cluding c Leak (cutting, r on in all lo ng and re portion o ds, center s noticed	ages to any eak site, ba ost of mec 5858.48 emoving a kinds of so emoving a f the line a ing the pip and refillin	y other utilities alling out water, hanical joint an 29292.40 nd laying back pil for exposing portion of pipe and specials ar e, providing the g the trenches	, including lighting, w nd as per t 5953.75 a length of g leak porti e from the ind replacing e joints, tes using exca	, removing t the charges atching, ribb he direction 29768.75 1.0m from o ion of the pi damaged jo g the pipe w sting the line avated earth
10	surplus soil from the work site, without hire and conveyance of tools, plants are fencing, caution boards, traffic divers departmental officers etc. complete.	t causing and materia ion but ex 5.000 m DI Pipe c excavations g, by cuttion remaining ing the end any defects luding con	any dama ls to the lo cluding c Leak (cutting, r on in all l ng and re portion o ds, center s noticed solidating	emoving a f the line a ing the pip and refilling each laye	y other utilities ailing out water, hanical joint an 29292.40 nd laying back bil for exposing portion of pipe and specials ar e, providing the g the trenches ers by ramming	, including lighting, w nd as per t 5953.75 a length of g leak porti e from the id replacing e joints, tes using exca g, watering	, removing t the charges atching, ribb he direction 29768.75 1.0m from o ion of the pi damaged jo g the pipe w sting the line avated earth , removing t
10	surplus soil from the work site, without hire and conveyance of tools, plants ar fencing, caution boards, traffic divers departmental officers etc. complete.	t causing and materia ion but ex 5.000 m DI Pipe c excavations ng the end any defects luding con at causing	any dama ls to the lo cluding c Leak (cutting, r on in all ng and re portion o ds, center s noticed solidating any dama	emoving a f the line a ing the pip and refilling each laye ages to an	y other utilities alling out water, hanical joint an 29292.40 Ind laying back oil for exposing portion of pipe and specials ar e, providing the g the trenches ers by ramming y other utilities	, including lighting, w nd as per t 5953.75 a length of g leak porti e from the d replacing e joints, tes using exca g, watering , including	, removing t the charges atching, ribb he direction 29768.75 1.0m from o ion of the pi damaged jo g the pipe w sting the line avated earth , removing t the charges
10	surplus soil from the work site, without hire and conveyance of tools, plants are fencing, caution boards, traffic divers departmental officers etc. complete.	t causing and materia ion but ex 5.000 m DI Pipe c excavations g, by cuttion remaining ing the end any defects luding con at causing and materia	any dama ls to the lo cluding c Leak (cutting, r on in all ng and re portion o ds, center s noticed solidating any dama ls to the lo	emoving and the line a ing the pip and refilling geach laye ages to any eak site, ba	y other utilities ailing out water, hanical joint an 29292.40 nd laying back bil for exposing portion of pipe and specials ar e, providing the re, providing the g the trenches ers by ramming y other utilities ailing out water,	, including lighting, w nd as per t 5953.75 a length of g leak porti e from the d replacing e joints, tes using exca g, watering , including lighting, w	, removing t the charges atching, ribb he direction 29768.75 1.0m from o ion of the pi damaged jo g the pipe w sting the line avated earth , removing t the charges ratching, ribb
10	surplus soil from the work site, without hire and conveyance of tools, plants are fencing, caution boards, traffic divers departmental officers etc. complete. 100.49.1.3 Rectification of joint leakages in 200mr side of the joint) including earth work including tar cutting / concrete cutting without causing any damages to the mechanical and tyton joint after clean the required test pressure, rectifying a layers not exceeding 20cm depth inclu- surplus soil from the work site, without hire and conveyance of tools, plants are fencing, caution boards, traffic divers	t causing and materia ion but ex 5.000 m DI Pipe c excavations g, by cuttion remaining ing the end any defects luding con at causing and materia	any dama ls to the lo cluding c Leak (cutting, r on in all ng and re portion o ds, center s noticed solidating any dama ls to the lo	emoving and the line a ing the pip and refilling geach laye ages to any eak site, ba	y other utilities ailing out water, hanical joint an 29292.40 nd laying back bil for exposing portion of pipe and specials ar e, providing the re, providing the g the trenches ers by ramming y other utilities ailing out water,	, including lighting, w nd as per t 5953.75 a length of g leak porti e from the d replacing e joints, tes using exca g, watering , including lighting, w	, removing t the charges atching, ribb he direction 29768.75 1.0m from o ion of the pi damaged jo g the pipe w sting the line avated earth , removing t the charges ratching, ribb
10	surplus soil from the work site, without hire and conveyance of tools, plants are fencing, caution boards, traffic divers departmental officers etc. complete.	t causing and materia ion but ex 5.000 m DI Pipe c excavations g, by cuttion remaining ing the end any defects luding con at causing and materia	any dama ls to the lo cluding c Leak (cutting, r on in all ng and re portion o ds, center s noticed solidating any dama ls to the lo	emoving and the line a ing the pip and refilling geach laye ages to any eak site, ba	y other utilities ailing out water, hanical joint an 29292.40 nd laying back bil for exposing portion of pipe and specials ar e, providing the re, providing the g the trenches ers by ramming y other utilities ailing out water,	, including lighting, w nd as per t 5953.75 a length of g leak porti e from the d replacing e joints, tes using exca g, watering , including lighting, w	, removing t the charges atching, ribb he direction 29768.75 1.0m from o ion of the pi damaged jo g the pipe w sting the line avated earth , removing t the charges ratching, ribb



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11 100.49.1.4

Rectification of joint leakages in 250mm DI Pipe (cutting, removing and laying back a length of 1.0m from one side of the joint) including earth work excavation in all kinds of soil for exposing leak portion of the pipe including tar cutting / concrete cutting, by cutting and removing a portion of pipe from the damaged joint without causing any damages to the remaining portion of the line and specials and replacing the pipe with mechanical and tyton joint after cleaning the ends, centering the pipe, providing the joints, testing the line to the required test pressure, rectifying any defects noticed and refilling the trenches using excavated earth in layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removing the surplus soil from the work site, without causing any damages to any other utilities, including the charges of hire and conveyance of tools, plants and materials to the leak site, bailing out water, lighting, watching, ribbon fencing, caution boards, traffic diversion but excluding cost of mechanical joint and as per the direction of departmental officers etc. complete.

	3.000	Leak	7912.5	23737.50	8027.10	24081.30
100.49.1.5						
Rectification of joint leakages in 300mm	DI Pipe	(cutting, r	emoving a	nd laying back a	a length of	1.0m from one
l		100.49.1.5	100.49.1.5	100.49.1.5	100.49.1.5	//P

side of the joint) including earth work excavation in all kinds of soil for exposing leak portion of the pipe including tar cutting / concrete cutting, by cutting and removing a portion of pipe from the damaged joint without causing any damages to the remaining portion of the line and specials and replacing the pipe with mechanical and tyton joint after cleaning the ends, centering the pipe, providing the joints, testing the line to the required test pressure, rectifying any defects noticed and refilling the trenches using excavated earth in layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removing the surplus soil from the work site, without causing any damages to any other utilities, including the charges of hire and conveyance of tools, plants and materials to the leak site, bailing out water, lighting, watching, ribbon fencing, caution boards, traffic diversion but excluding cost of mechanical joint and as per the direction of departmental officers etc. complete.

Leak

8846.13

8846.13

8972.00

8972.00

1.000

13 100.50.1.1

Rectification of leakages of 32 mm, 40mm & 50mm GI Pipes by replacing lengths up to 1.0m including earth work excavation in all kindss of soil for exposing leak portion of the pipe including tar / concrete cutting, by cutting, removing and stacking the damaged portion from the existing line without causing any damages to the remaining portion and specials and conveying and replacing with GI Pipes of suitable size and jointing by thraded coupler and union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testing the line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated earth in layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removing the surplus soil from the work site, without causing any damages to any other utilities, including the charges hire and conveyance of tools, plant and materials to the leak site, bailing out water, lighting, watching, ribbon fencing, caution boards, traffic diversion, including the cost of specials but excluding cost of pipe and as per the direction of departmental officers etc. complete.

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14	100.50.1.2
14	
	Rectification of leakages of 65 mm GI Pipes by replacing lengths up to 1.0m including earth work excav
	in all kindss of soil for exposing leak portion of the pipe including tar / concrete cutting, by cutting, rem
	and stacking the damaged portion from the existing line without causing any damages to the remaining poly
	and specials and conveying and replacing with GI Pipes of suitable size and jointing by thraded couple
	union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testin
	line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated ea
	layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removin
	surplus soil from the work site, without causing any damages to any other utilities, including the charges
	and conveyance of tools, plant and materials to the leak site, bailing out water, lighting, watching, ri
	fencing, caution boards, traffic diversion, including the cost of specials but excluding cost of pipe and a
	the direction of departmental officers etc. complete.
	25.000 Leak 3251.11 81277.75 3268.35 81708
15	100.50.1.3
-	Rectification of leakages of 80 mm GI Pipes by replacing lengths up to 1.0m including earth work excav
	in all kindss of soil for exposing leak portion of the pipe including tar / concrete cutting, by cutting, rem
	and stacking the damaged portion from the existing line without causing any damages to the remaining po
	and specials and conveying and replacing with GI Pipes of suitable size and jointing by thraded couple
	and specials and conveying and replacing with GI Pipes of suitable size and jointing by thraded couple union of suitable size including threading, alignment, laving and jointing to make a water tight joint, testing
	union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testin
	union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testin line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated ea
	union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testin
	union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testin line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated ea layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removin
	union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testin line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated ea layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removin surplus soil from the work site, without causing any damages to any other utilities, including the charges
	union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testin line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated ea layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removin surplus soil from the work site, without causing any damages to any other utilities, including the charges and conveyance of tools, plant and materials to the leak site, bailing out water, lighting, watching, ri
	union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testin line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated ea layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removin surplus soil from the work site, without causing any damages to any other utilities, including the charges and conveyance of tools, plant and materials to the leak site, bailing out water, lighting, watching, ri fencing, caution boards, traffic diversion, including the cost of specials but excluding cost of pipe and a the direction of departmental officers etc. complete.
	union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testingline to the required pressure, rectifying any defects noticed and refilling the trenches using excavated earlayers not exceeding 20cm depth including consolidating each layers by ramming, watering, removingsurplus soil from the work site, without causing any damages to any other utilities, including the chargesand conveyance of tools, plant and materials to the leak site, bailing out water, lighting, watching, righting, caution boards, traffic diversion, including the cost of specials but excluding cost of pipe and athe direction of departmental officers etc. complete.16.000Leak3630.458086.403807.8560925
16	union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testing line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated ear layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removing surplus soil from the work site, without causing any damages to any other utilities, including the charges and conveyance of tools, plant and materials to the leak site, bailing out water, lighting, watching, rif fencing, caution boards, traffic diversion, including the cost of specials but excluding cost of pipe and a the direction of departmental officers etc. complete.16.000Leak3630.458086.403807.8560925100.50.1.4
16	union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testin line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated ear layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removin surplus soil from the work site, without causing any damages to any other utilities, including the charges and conveyance of tools, plant and materials to the leak site, bailing out water, lighting, watching, ri- fencing, caution boards, traffic diversion, including the cost of specials but excluding cost of pipe and a the direction of departmental officers etc. complete. 16.000 Leak 3630.4 58086.40 3807.85 60925 100.50.1.4 Rectification of leakages of 100 mm GI Pipes by replacing lengths up to 1.0m including earth work excav
16	union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testin line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated ear layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removin surplus soil from the work site, without causing any damages to any other utilities, including the charges and conveyance of tools, plant and materials to the leak site, bailing out water, lighting, watching, ri- fencing, caution boards, traffic diversion, including the cost of specials but excluding cost of pipe and a the direction of departmental officers etc. complete. 16.000 Leak 3630.4 58086.40 3807.85 60925 100.50.1.4 Rectification of leakages of 100 mm GI Pipes by replacing lengths up to 1.0m including earth work excav in all kindss of soil for exposing leak portion of the pipe including tar / concrete cutting, by cutting, rem
16	union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testing line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated ear layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removing surplus soil from the work site, without causing any damages to any other utilities, including the charges and conveyance of tools, plant and materials to the leak site, bailing out water, lighting, watching, ri- fencing, caution boards, traffic diversion, including the cost of specials but excluding cost of pipe and a the direction of departmental officers etc. complete. 16.000 Leak 3630.4 58086.40 3807.85 60925 100.50.1.4 Rectification of leakages of 100 mm GI Pipes by replacing lengths up to 1.0m including earth work excav- in all kindss of soil for exposing leak portion of the pipe including tar / concrete cutting, by cutting, rem and stacking the damaged portion from the existing line without causing any damages to the remaining p
16	union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testing line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated ear layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removing surplus soil from the work site, without causing any damages to any other utilities, including the charges and conveyance of tools, plant and materials to the leak site, bailing out water, lighting, watching, ri- fencing, caution boards, traffic diversion, including the cost of specials but excluding cost of pipe and a the direction of departmental officers etc. complete. 16.000 Leak 3630.4 58086.40 3807.85 60925 100.50.1.4 Rectification of leakages of 100 mm GI Pipes by replacing lengths up to 1.0m including earth work excav- in all kindss of soil for exposing leak portion of the pipe including tar / concrete cutting, by cutting, rem and stacking the damaged portion from the existing line without causing any damages to the remaining pu and specials and conveying and replacing with GI Pipes of suitable size and jointing by thraded couple
16	union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testing line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated ear layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removing surplus soil from the work site, without causing any damages to any other utilities, including the charges and conveyance of tools, plant and materials to the leak site, bailing out water, lighting, watching, ri- fencing, caution boards, traffic diversion, including the cost of specials but excluding cost of pipe and a the direction of departmental officers etc. complete. 16.000 Leak 3630.4 58086.40 3807.85 60925 100.50.1.4 Rectification of leakages of 100 mm GI Pipes by replacing lengths up to 1.0m including earth work excav- in all kindss of soil for exposing leak portion of the pipe including tar / concrete cutting, by cutting, rem and stacking the damaged portion from the existing line without causing any damages to the remaining pu and specials and conveying and replacing with GI Pipes of suitable size and jointing by thraded couple union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testing
16	union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testim line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated ear layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removin surplus soil from the work site, without causing any damages to any other utilities, including the charges and conveyance of tools, plant and materials to the leak site, bailing out water, lighting, watching, ri fencing, caution boards, traffic diversion, including the cost of specials but excluding cost of pipe and a the direction of departmental officers etc. complete. 16.000 Leak 3630.4 58086.40 3807.85 60925 100.50.1.4 Rectification of leakages of 100 mm GI Pipes by replacing lengths up to 1.0m including earth work excav in all kindss of soil for exposing leak portion of the pipe including tar / concrete cutting, by cutting, rem and stacking the damaged portion from the existing line without causing any damages to the remaining pr and specials and conveying and replacing with GI Pipes of suitable size and jointing by thraded couple union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testim line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated ear and specials and conveying and replacing with GI Pipes of suitable size and jointing by thraded couple union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testim line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated ear and specials and conveying and replacing with GI Pipes of suitable size and jointing to make a water tight joint, testim line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated ear
16	union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testing line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated ear layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removin surplus soil from the work site, without causing any damages to any other utilities, including the charges and conveyance of tools, plant and materials to the leak site, bailing out water, lighting, watching, ri fencing, caution boards, traffic diversion, including the cost of specials but excluding cost of pipe and a the direction of departmental officers etc. complete. 16.000 Leak 3630.4 58086.40 3807.85 60925 100.50.1.4 Rectification of leakages of 100 mm GI Pipes by replacing lengths up to 1.0m including earth work excav in all kindss of soil for exposing leak portion of the pipe including tar / concrete cutting, by cutting, rem and stacking the damaged portion from the existing line without causing any damages to the remaining pr and specials and conveying and replacing with GI Pipes of suitable size and jointing by thraded couple union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testing line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated ear layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removing
16	union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testing line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated ear layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removin surplus soil from the work site, without causing any damages to any other utilities, including the charges and conveyance of tools, plant and materials to the leak site, bailing out water, lighting, watching, ri- fencing, caution boards, traffic diversion, including the cost of specials but excluding cost of pipe and a the direction of departmental officers etc. complete. 16.000 Leak 3630.4 58086.40 3807.85 60925 100.50.1.4 Rectification of leakages of 100 mm GI Pipes by replacing lengths up to 1.0m including earth work excav- in all kindss of soil for exposing leak portion of the pipe including tar / concrete cutting, by cutting, rem and stacking the damaged portion from the existing line without causing any damages to the remaining pr and specials and conveying and replacing with GI Pipes of suitable size and jointing by thraded couple union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testing line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated ear layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removin surplus soil from the work site, without causing any damages to any other utilities, including the charges layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removin surplus soil from the work site, without causing any damages to any other utilities, including the charges
16	union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testim line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated ear layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removin surplus soil from the work site, without causing any damages to any other utilities, including the charges and conveyance of tools, plant and materials to the leak site, bailing out water, lighting, watching, ri fencing, caution boards, traffic diversion, including the cost of specials but excluding cost of pipe and a the direction of departmental officers etc. complete. 16.000 Leak 3630.4 58086.40 3807.85 60925 100.50.1.4 Rectification of leakages of 100 mm GI Pipes by replacing lengths up to 1.0m including earth work excav in all kindss of soil for exposing leak portion of the pipe including tar / concrete cutting, by cutting, rem and stacking the damaged portion from the existing line without causing any damages to the remaining pr and specials and conveying and replacing with GI Pipes of suitable size and jointing by thraded couple union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testim line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated ear layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removin surplus soil from the work site, without causing any damages to any other utilities, including the charges and conveyance of tools, plant and materials to the leak site, bailing out water, lighting, watching, ri
16	union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testim line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated ear layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removin surplus soil from the work site, without causing any damages to any other utilities, including the charges and conveyance of tools, plant and materials to the leak site, bailing out water, lighting, watching, ri fencing, caution boards, traffic diversion, including the cost of specials but excluding cost of pipe and a the direction of departmental officers etc. complete. 16.000 Leak 3630.4 58086.40 3807.85 60925 100.50.1.4 Rectification of leakages of 100 mm GI Pipes by replacing lengths up to 1.0m including earth work excav in all kindss of soil for exposing leak portion of the pipe including tar / concrete cutting, by cutting, rem and stacking the damaged portion from the existing line without causing any damages to the remaining pi and specials and conveying and replacing with GI Pipes of suitable size and jointing by thraded couple union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testim line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated ear layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removin surplus soil from the work site, without causing any damages to any other utilities, including the charges and conveyance of tools, plant and materials to the leak site, bailing out water, lighting, watching, ri fencing, caution boards, traffic diversion, including the cost of specials but excluding cost of pipe and a
16	union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testim line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated ear layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removin surplus soil from the work site, without causing any damages to any other utilities, including the charges and conveyance of tools, plant and materials to the leak site, bailing out water, lighting, watching, ri fencing, caution boards, traffic diversion, including the cost of specials but excluding cost of pipe and a the direction of departmental officers etc. complete. 16.000 Leak 3630.4 58086.40 3807.85 60925 100.50.1.4 Rectification of leakages of 100 mm GI Pipes by replacing lengths up to 1.0m including earth work excav in all kindss of soil for exposing leak portion of the pipe including tar / concrete cutting, by cutting, rem and stacking the damaged portion from the existing line without causing any damages to the remaining pr and specials and conveying and replacing with GI Pipes of suitable size and jointing by thraded couple union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testim line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated ear layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removin surplus soil from the work site, without causing any damages to any other utilities, including the charges and conveyance of tools, plant and materials to the leak site, bailing out water, lighting, watching, ri



17	100.50.1.5										
	Rectification of leakages of 125 mm GI Pipes by replacing lengths up to 1.0m including earth work excavation										
	in all kindss of soil for exposing leak portion of the pipe including tar / concrete cutting, by cutting, removin										
	and stacking the damaged portion from the existing line without causing any damages to the remaining portio										
		and specials and conveying and replacing with GI Pipes of suitable size and jointing by thraded coupler an									
	union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testing the										
	line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated earth including consolidating each layers by ramming, watering, removing the										
	layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removing th surplus soil from the work site, without causing any damages to any other utilities, including the charges hir										
	and conveyance of tools, plant and materials to the leak site, bailing out water, lighting, watching, ribbo fencing, caution boards, traffic diversion, including the cost of specials but excluding cost of pipe and as p										
	the direction of departmental officers etc. complete.										
		6.000	Leak	4314.97	25889.82	4390.55	26343.30				
18	100.50.1.6	10	16.55								
		I Pipes by	replacing	lengths up	to 1.0m includ	ing earth w	ork excavati				
	Rectification of leakages of 150 mm GI Pipes by replacing lengths up to 1.0m including earth work excavatio in all kindss of soil for exposing leak portion of the pipe including tar / concrete cutting, by cutting, removin										
	and stacking the damaged portion from the existing line without causing any damages to the remaining portion										
	and specials and conveying and replacing with GI Pipes of suitable size and jointing by thraded coupler and										
	union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testing the										
	line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated earth in										
	layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removing the										
	surplus soil from the work site, without causing any damages to any other utilities, including the charges hir and conveyance of tools, plant and materials to the leak site, bailing out water, lighting, watching, ribbo										
						-	-				
	and conveyance of tools, plant and	materials to	o the lea	k site, baili	ng out water, l	ighting, wa	atching, ribb				
	and conveyance of tools, plant and fencing, caution boards, traffic divers	materials to ion, includir	o the lea ng the co	k site, baili	ng out water, l	ighting, wa	atching, ribb				
	and conveyance of tools, plant and	materials to ion, includir etc. comple	o the lean ng the co ete.	k site, baili st of specia	ng out water, l als but excludir	ighting, wa	atching, ribb ipe and as p				
	and conveyance of tools, plant and fencing, caution boards, traffic divers	materials to ion, includir	o the lea ng the co	k site, baili	ng out water, l	ighting, wa	atching, ribb ipe and as p				
19	and conveyance of tools, plant and fencing, caution boards, traffic divers the direction of departmental officers 100.37.3	materials to ion, includir etc. comple 4.000	o the lea ng the co ete. Leak	k site, baili st of specia 4938.51	ng out water, l als but excludir 19754.04	ighting, wa ng cost of p 5024.05	atching, ribb ipe and as p 20096.20				
19	and conveyance of tools, plant and fencing, caution boards, traffic divers the direction of departmental officers 100.37.3 Welding MS sheet, pipe and special b	materials to ion, includir etc. comple 4.000 by gas or ele	o the lea ng the co ete. Leak ectric plar	k site, baili st of specia 4938.51	ng out water, l als but excludir 19754.04	ighting, wa ng cost of p 5024.05	atching, ribb ipe and as p 20096.20				
19	and conveyance of tools, plant and fencing, caution boards, traffic divers the direction of departmental officers 100.37.3	materials to ion, includir etc. comple 4.000 by gas or ele	o the lea ng the co ete. Leak ectric plar	k site, baili st of specia 4938.51	ng out water, l als but excludir 19754.04	ighting, wa ng cost of p 5024.05	atching, ribbo ipe and as p 20096.20				
19	and conveyance of tools, plant and fencing, caution boards, traffic divers the direction of departmental officers 100.37.3 Welding MS sheet, pipe and special b	materials to ion, includir etc. comple 4.000 by gas or ele bols etc com 1789.80	o the lea ng the co ete. Leak ectric plan pplete.	k site, baili st of specia 4938.51 ht for three	ng out water, l als but excludin 19754.04 run welding inc	ighting, wa og cost of p 5024.05	atching, ribb ipe and as p 20096.20				
19	and conveyance of tools, plant and fencing, caution boards, traffic divers the direction of departmental officers 100.37.3 Welding MS sheet, pipe and special b	materials to ion, includir etc. comple 4.000 by gas or ele pols etc com	o the lea ng the co ete. Leak ectric plar	k site, baili st of specia 4938.51	ng out water, l als but excludir 19754.04	ighting, wa ng cost of p 5024.05	atching, ribb ipe and as p 20096.20				
19	and conveyance of tools, plant and fencing, caution boards, traffic divers the direction of departmental officers 100.37.3 Welding MS sheet, pipe and special b / gas, all labour and hire charges of to 100.58.1	materials to ion, includir etc. comple 4.000 by gas or ele ools etc com 1789.80 0	the lea ng the co ete. Leak ectric plan plete. cm	4938.51 4938.51 t for three 12.45	ng out water, l als but excludin 19754.04 run welding inc 22283.01	ighting, wa ag cost of p 5024.05 Iuding cost 21.75	atching, ribb ipe and as p 20096.20 of welding r 38928.15				
	and conveyance of tools, plant and fencing, caution boards, traffic divers the direction of departmental officers 100.37.3 Welding MS sheet, pipe and special b / gas, all labour and hire charges of to 100.58.1 Rectifying the leakages in vertical pipe	materials to ion, includir etc. comple 4.000 by gas or ele bols etc com 1789.80 0 e of public t	ectric plan plete. cm	k site, baili st of specia 4938.51 ht for three 12.45	ng out water, I als but excludin 19754.04 run welding inc 22283.01 ding earth work	ighting, wa ig cost of p 5024.05 Huding cost 21.75	atching, ribb ipe and as p 20096.20 of welding r 38928.15 n in all kinds				
	and conveyance of tools, plant and fencing, caution boards, traffic divers the direction of departmental officers 100.37.3 Welding MS sheet, pipe and special b / gas, all labour and hire charges of to 100.58.1 Rectifying the leakages in vertical pipe soil for exposing the pipeline including	materials to ion, includir etc. comple 4.000 by gas or ele ools etc com 1789.80 0 e of public to ing concrete	the leading the co ete. Leak ectric plan plete. cm tap conne / tar cutt	4938.51 4938.51 t for three 12.45	ng out water, I als but excludin 19754.04 run welding inc 22283.01 ding earth work and removing	ighting, wa ig cost of p 5024.05 cluding cost 21.75 c excavation damaged p	atching, ribb ipe and as p 20096.20 of welding r 38928.15 n in all kinds portion of pip				
	and conveyance of tools, plant and fencing, caution boards, traffic divers the direction of departmental officers 100.37.3 Welding MS sheet, pipe and special b / gas, all labour and hire charges of to 100.58.1 Rectifying the leakages in vertical pipe soil for exposing the pipeline includin fixing new 20/25 mm GI pipe and special	materials to ion, includir etc. comple 4.000 by gas or ele ools etc com 1789.80 0 e of public to ing concrete ecials in pla	the lea ag the co ete. Leak ectric plan aplete. cm tap conne / tar cutt ace of dat	k site, baili st of specia 4938.51 ht for three 12.45 ection inclu- ing,cutting maged port	ng out water, I als but excludin 19754.04 run welding inc 22283.01 ding earth work and removing tion of pipe and	ighting, wa ig cost of p 5024.05 duding cost 21.75 c excavation damaged p d connectin	atching, ribb ipe and as p 20096.20 of welding r 38928.15 n in all kinds portion of pip				
	and conveyance of tools, plant and fencing, caution boards, traffic divers the direction of departmental officers 100.37.3 Welding MS sheet, pipe and special b / gas, all labour and hire charges of to 100.58.1 Rectifying the leakages in vertical pip soil for exposing the pipeline includin fixing new 20/25 mm GI pipe and special pipe line,testing the line to the required	materials to ion, includir etc. comple 4.000 by gas or ele ools etc com 1789.80 0 e of public to ing concrete ecials in pla d pressure,	ectric plan aplete. cm tap conne / tar cutt rectifying	k site, baili st of specia 4938.51 ht for three 12.45 ection inclu- ing,cutting maged port g any defec	ng out water, l als but excludin 19754.04 run welding inc 22283.01 ding earth work and removing tion of pipe and ts noticed and i	ighting, wa ig cost of p 5024.05 duding cost 21.75 c excavation damaged d connectin refilling the	atching, ribb ipe and as p 20096.20 of welding r 38928.15 n in all kinds portion of pip ig with existi- trenches usi				
	and conveyance of tools, plant and fencing, caution boards, traffic divers the direction of departmental officers 100.37.3 Welding MS sheet, pipe and special b / gas, all labour and hire charges of to 100.58.1 Rectifying the leakages in vertical pipe soil for exposing the pipeline includin fixing new 20/25 mm GI pipe and spe pipe line,testing the line to the required excavated earth in layers not exce	materials to ion, includin etc. comple 4.000 by gas or ele ools etc com 1789.80 0 e of public to g concrete ecials in pla d pressure, eding 20cm	the lea ag the co ete. Leak ectric plan plete. cm tap conne / tar cutt ace of dan rectifying n depth	4938.51 4938.51 t for three 12.45 ection including, cutting maged port any defect including of	ng out water, I als but excludin 19754.04 run welding inc 22283.01 ding earth work and removing tion of pipe and ts noticed and ic consolidating e	ighting, wa ag cost of p 5024.05 cluding cost 21.75 c excavation damaged p d connection refilling the each layers	atching, ribbo ipe and as p 20096.20 of welding re 38928.15 n in all kinds portion of pip ig with existi trenches usi s by rammir				
	and conveyance of tools, plant and fencing, caution boards, traffic divers the direction of departmental officers 100.37.3 Welding MS sheet, pipe and special b / gas, all labour and hire charges of to 100.58.1 Rectifying the leakages in vertical pip soil for exposing the pipeline includin fixing new 20/25 mm GI pipe and spec pipe line,testing the line to the required excavated earth in layers not excer watering, removing the surplus soil f	materials to ion, includir etc. comple 4.000 by gas or ele bols etc com 1789.80 0 e of public to ag concrete ecials in pla d pressure, eding 20cm from the wo	ectric plan aplete. cm cm cm cm cm cm cm cm cm cm cm cm cm	k site, baili st of specia 4938.51 ht for three 12.45 ection including maged port g any defect including of vithout cau	ng out water, l als but excludin 19754.04 run welding inc 22283.01 ding earth work and removing tion of pipe and ts noticed and r consolidating e sing any dama	ighting, wa ig cost of p 5024.05 Juding cost 21.75 c excavation damaged p d connection refilling the each layers ages to any	atching, ribb ipe and as p 20096.20 of welding r 38928.15 n in all kinds portion of pip g with existing trenches using by ramming other utilitie				
	and conveyance of tools, plant and fencing, caution boards, traffic divers the direction of departmental officers 100.37.3 Welding MS sheet, pipe and special b / gas, all labour and hire charges of to 100.58.1 Rectifying the leakages in vertical pipe soil for exposing the pipeline including fixing new 20/25 mm GI pipe and species pipe line,testing the line to the required excavated earth in layers not excel watering, removing the surplus soil for including the charges of hire and com-	materials to ion, includin etc. comple 4.000 by gas or ele ools etc com 1789.80 0 e of public to ag concrete ecials in pla d pressure, eding 20cm from the wor veyance of	the lea ag the co ete. Leak ectric plan plete. cm tap conne / tar cutt ace of dan rectifying n depth ork site, v tools, plan	k site, baili st of specia 4938.51 ht for three 12.45 ection including, cutting maged port g any defect including of vithout cau	ng out water, l als but excludin 19754.04 run welding inc 22283.01 ding earth work and removing tion of pipe and ts noticed and r consolidating e sing any dama aterials to the le	ighting, wa ag cost of p 5024.05 cluding cost 21.75 c excavation damaged p d connection refilling the each layers ages to any eak site, ba	atching, ribbe ipe and as p 20096.20 c of welding re 38928.15 n in all kinds portion of pip g with existi trenches usi s by rammir other utilitie illing out wat				
	and conveyance of tools, plant and fencing, caution boards, traffic divers the direction of departmental officers 100.37.3 Welding MS sheet, pipe and special b / gas, all labour and hire charges of to 100.58.1 Rectifying the leakages in vertical pipe soil for exposing the pipeline including fixing new 20/25 mm GI pipe and spec pipe line,testing the line to the required excavated earth in layers not excer watering, removing the surplus soil for including the charges of hire and com- lighting, watching, ribbon fencing, cau	materials to ion, includir etc. completed average of a set completed averag	the lead of the lead of the collected of	k site, baili st of specia 4938.51 ht for three 12.45 ection including, cutting maged port g any defect including of vithout cau	ng out water, l als but excludin 19754.04 run welding inc 22283.01 ding earth work and removing tion of pipe and ts noticed and r consolidating e sing any dama aterials to the le	ighting, wa ag cost of p 5024.05 cluding cost 21.75 c excavation damaged p d connection refilling the each layers ages to any eak site, ba	atching, ribbe ipe and as p 20096.20 c of welding re 38928.15 n in all kinds portion of pip g with existing trenches using s by ramming other utilities illing out wat				
	and conveyance of tools, plant and fencing, caution boards, traffic divers the direction of departmental officers 100.37.3 Welding MS sheet, pipe and special b / gas, all labour and hire charges of to 100.58.1 Rectifying the leakages in vertical pipe soil for exposing the pipeline including fixing new 20/25 mm GI pipe and species pipe line,testing the line to the required excavated earth in layers not excel watering, removing the surplus soil for including the charges of hire and com-	materials to ion, includir etc. completed average of a set completed averag	the lead of the lead of the collected of	k site, baili st of specia 4938.51 ht for three 12.45 ection including, cutting maged port g any defect including of vithout cau	ng out water, l als but excludin 19754.04 run welding inc 22283.01 ding earth work and removing tion of pipe and ts noticed and r consolidating e sing any dama aterials to the le	ighting, wa ag cost of p 5024.05 cluding cost 21.75 c excavation damaged p d connection refilling the each layers ages to any eak site, ba	atching, ribb ipe and as p 20096.20 c of welding r 38928.15 n in all kinds portion of pip g with existi trenches usi s by rammir other utilitie illing out wat				



	100.56.1 Supplying and fixing 15 / 20 mm PVC public tap after dismantling the damaged tap including all cost of materials, labour charges, hire for tools and as per the direction of the department officers etc complete									
			15.000	Nos	133.53	2002.95	136.10	2041.50		
22	100.98.10	08								
	Engaging	Coolie								
			40.000	Day	917.26	36690.40	929.20	37168.00		
23	13.44.1 Finishing 3.84 kg/10	walls with water proofing) sqm)	cement paint	of requir	ed shade:N	lew work (Two	or more co	pats applied		
			1200.00 0	sqm	112.09	134508.00	121.20	145440.00		
24	100.98.48 Supply of		2		3-					
		6	15.000	No	75.15	1127.25	75.15	1127.25		
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount		
		3 - (8)- Line charging, stat tor at treatment plant usin	g 350mm DIK	9 pipes a						
	n with aera 100.1.1 Excavating sides, ram soil as reg ramming,	tor at treatment plant usin g trenches of required wid nming of bottoms, depth u quired, in layers not exc watering, etc. and dispo	g 350mm DIK r dth for pipes, d p to 1.5 m, ind eeding 20 cm	9 pipes a main cables, e cluding g i in depti	tc including etting out th	ng surge arresto g excavation for the excavated s g consolidating	or in raw wa r sockets, a oil, and the geach depo	ater pumping and dressing in returning th psited layer b		
mai	n with aera 100.1.1 Excavatin sides, ram soil as rea ramming, All kinds o	tor at treatment plant usin g trenches of required wid nming of bottoms, depth u quired, in layers not exc watering, etc. and dispo	g 350mm DIK r dth for pipes, d p to 1.5 m, ind eeding 20 cm	9 pipes a main cables, e cluding g i in depti	tc including etting out th	ng surge arresto g excavation for the excavated s g consolidating	or in raw wa r sockets, a oil, and the geach depo	ater pumping and dressing in returning th psited layer b		
	n with aera 100.1.1 Excavatin sides, ram soil as rea ramming, All kinds o	tor at treatment plant usin g trenches of required with ming of bottoms, depth u quired, in layers not exc watering, etc. and dispo f soil	g 350mm DIK r dth for pipes, d p to 1.5 m, ind eeding 20 cm	9 pipes a main cables, e cluding g i in depti	tc including etting out th	ng surge arresto g excavation for the excavated s g consolidating	or in raw wa r sockets, a oil, and the geach depo	ater pumping and dressing in returning th psited layer b		
mai	n with aera 100.1.1 Excavation sides, ram soil as rea ramming, All kinds o (Ref. Item 100.1.5 Excavation sides, ram soil as rea raming, Ordinary F	tor at treatment plant usin g trenches of required with ming of bottoms, depth u quired, in layers not exc watering, etc. and dispo- f soil No. 2.10.1 of DSR) g trenches of required with ming of bottoms, depth u quired, in layers not exc watering, etc. and dispo- Rock.	dth for pipes, of the for pipe	9 pipes a main cables, e cluding gu in depti us excav cum cables, e cluding gu in depti	tc including etting out th h, including vated soil a 579.85 tc including etting out th h, including	excavation for he excavated s g consolidating as directed, with 49751.71	or in raw wa r sockets, a oil, and the geach depo thin a lead 592.25 r sockets, a oil, and the geach depo	ater pumping and dressing on returning th osited layer l of 50 m : 50815.64 and dressing on returning th osited layer l		
mai	n with aera 100.1.1 Excavation sides, ram soil as rea ramming, All kinds o (Ref. Item 100.1.5 Excavation sides, ram soil as rea raming, Ordinary F	tor at treatment plant usin g trenches of required win ming of bottoms, depth u quired, in layers not exc watering, etc. and dispo- of soil No. 2.10.1 of DSR) g trenches of required win ming of bottoms, depth u quired, in layers not exc watering, etc. and dispo-	dth for pipes, of the for pipe	9 pipes a main cables, e cluding gu in depti us excav cum cables, e cluding gu in depti	tc including etting out th h, including vated soil a 579.85 tc including etting out th h, including	excavation for he excavated s g consolidating as directed, with 49751.71	or in raw wa r sockets, a oil, and the geach depo thin a lead 592.25 r sockets, a oil, and the geach depo	ater pumping and dressing on returning th osited layer l of 50 m : 50815.64 and dressing on returning th osited layer l		



3	100.2.2									
	Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drain (not exceeding 1.5 m in width or 10 m2 on plan), including dressing of sides and ramming of bottoms, lift up t 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within									
	1.5 m, including getting out the excave lead of 50 m.	ated soil a	and dispo	sal of surpl	us excavated	soils as dire	cted, within			
	Medium Rock (blasting prohibited)									
	New Data derived from Item No.2.9.3									
		5.721	cum	1106.34	6329.37	1547.00	8850.39			
		5.721	cum	1100.54	0329.37	1347.00	0000.09			
4	50.2.25.1 Filling with contractor's own earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers no									
		-	,	-			-			
	exceeding 20 cm in depth, consolidatin lift up to 1.5 m as per direction of site E	-	•	ayer by ram	ming and wat	ering, lead u	p to 50 m a			
		1.1	I-charge							
		5.000	cum	548.85	2744.25	342.40	1712.00			
5	100.14.6									
	Conveying and laying S&S Centrifuga	ally Cast (S	Spun) / D	uctile Iron I	Pipes conform	ning to IS: 8	329 excludi			
	cost of pipes and specials :									
	350 mm dia Ductile Iron Class K-9 Pipes									
	Data derived from 18.72.20 in DAR	1123	2.22							
		80.000	metre	283.7	22696.00	263.05	21044.00			
6	18.70.6	9.80			2	-				
0		ally (Sou	n) Cast Ir	on Pipes o	r Ductile Iron	Pipes includ	lina testina			
	Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing joints and including the cost of rubber gasket:350 mm dia pipes									
	Ker	ala vv	alti A	uunonn,	7040.00	450.50	7040.00			
		16.000	joint	456.93	7310.88	452.50	7240.00			
7	18.30.8	K			H,					
	Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:350 million									
	diameter pipe	1								
		2.000	Nos	811.46	1622.92	921.05	1842.10			
8	18.26.2									
-	Providing and laying flanged C.I. Standard specials such as tees, bends, collars, tapers, caps etc., suitable for									
	flanged jointing as per IS : 1538 :Over	•		,		· •				
		5.910	quintal	9660.34	57092.61	10512.55	62129.17			
		0.010	quintai	5000.54	07002.01	10012.00	02120.17			
9	18.83.8									
	Labour for cutting C.I. pipe with steel sa	aw.350 mn	n diamete	er C.I pipe						
		8.000	Each	781.1	6248.80	807.85	6462.80			
		0.000	Cut	701.1	0240.00	007.00	0402.00			
10	100.35.6									
	Testing 350mm DI/CI pipeline with pota	able water	to the req	uired test p	ressure.					
	350 mm dia									
	Observed Data derived from item no.10	024 of PHE	ED DATA							
	Observed Data derived from item no. It									
	Observed Data derived from terr no. It	80.000	metre	70.53	5642.40	74.60	5968.00			



11	4.1.3 Providing and laying in position cem shuttering - All work up to plinth leve nominal size)			-	-		-		
		30.000	cum	8340.93	250227.90	10609.70	318291.00		
12	5.22.6 Steel reinforcement for R.C.C work inc complete upto plinth levelThermo - Mee	•	• •			•	and binding all		
		1200.00 0	kilogram	102.61	123132.00	120.80	144960.00		
13	100.37.10.1 Fabricating MS pipes of size 350mm (of MS plate, all fabrication charges, c surface paint to give an even shade of 8mm thick MS plates.	harges of	⁻ painting	the steel v	vork with two c	or more coa	at deluxe multi		
	61	10.000	metre	9145.95	91459.50	12734.15	127341.50		
14	100.37.10.3 Cutting 350 mm (ID) MS pipes for ma labour and hire charges of tools etc. c			-		-	-		
		5.000	No	374.28	1871.40	735.90	3679.50		
15	100.37.10.4 Welding 350 mm (ID) MS pipes for including cost of gas and welding rods with 8mm thick MS plates.	-					-		
16									
		5.000	No	268.48	1342.40	270.20	1351.00		
17	100.37.6.1 Fabricating MS pipes of size 150mm (of MS plate, all fabrication charges, c surface paint to give an even shade of 8mm thick MS plates.	harges of	⁻ painting	the steel v	vork with two c	or more coa	at deluxe multi		
		2.000	metre	5174.62	10349.24	7454.00	14908.00		
18	100.37.6.3 Cutting 150mm (ID)MS pipes for mak labour and hire charges of tools etc. o	-		-		-	-		
	· · · · · · · · · · · · · · · · · · ·	3.000	No	169.77	509.31	333.75	1001.25		



	100.37.6.4 Welding 150mm (ID) MS pipes for m cost of gas and welding rods ,all labo thick MS plates.	-		-		-	
	1	3.000	No	649.48	1948.44	1134.25	3402.75
20	100.37.6.5 Grinding cut and weld edges of 150 charges of tools etc. complete: For	. ,		-		luding all la	abour and hi
		3.000	No	121.79	365.37	122.55	367.65
21	100.98.120 Supply of DI K9 Pipe Conforming to I	IS 8329/2000), 350mm	Dia.			
		80.000	metre	5506.95	440556.00	5238.35	419068.00
	dressing of sides and ramming of disposal of surplus excavated soil a Observed data)		1.1.1.1.1.1				
		15.000	cum	425.54	6383.10	425.55	6383.25
23	od83894/2020_2021	erala Wa	ater A	uthorit	V		
23	Providing 350mm surge arrestor- Providing 350mm surge arrestor- Providing Cost of existing DI pipe, inserting surge arrestas per DSR Observed data)	of specials su	ich as 2 N	los. Tail pie	ece, 2 Nos. Me	chanical joi	nts, cutting th
23	Providing 350mm surge arrestor- Prowiding and the surge arrestor of the surge arrest of existing DI pipe, inserting surge arrests of the surge arests of the surge arrests of the surge arrests of the	of specials su	ich as 2 N	los. Tail pie	ece, 2 Nos. Me	chanical joi	nts, cutting th arrestor.(Ra
23 24	Providing 350mm surge arrestor- Prowiding and the surge arrestor of the surge arrest of existing DI pipe, inserting surge arrests of the surge arests of the surge arrests of the surge arrests of the	of specials su stor, jointing 1.000 ement concre	No ete 1:2:4	los. Tail pie ged joints e 600000.0 using 20m	ece, 2 Nos. Me otc. including co 600000.00 m nominay size	chanical joi ost of surge 600000.0 0 e metal for	nts, cutting th arrestor.(Ra 600000.00 anchore blo
	Providing 350mm surge arrestor- Providing 350mm surge arrestor- Providence pumping main including cost of existing DI pipe, inserting surge arrestas per DSR Observed data)	of specials su stor, jointing 1.000 ement concre	No ete 1:2:4	los. Tail pie ged joints e 600000.0 using 20m	ece, 2 Nos. Me otc. including co 600000.00 m nominay size	chanical joi ost of surge 600000.0 0 e metal for	nts, cutting th arrestor.(Ra 600000.00 anchore bloo data)
	Providing 350mm surge arrestor- Providing 350mm surge arrestor- Providence pumping main including cost of existing DI pipe, inserting surge arrestas per DSR Observed data)	of specials su estor, jointing 1.000 ement concre labour charg 5.000 oviding air cu of materials ur charges fo	No No ete 1:2:4 ges etc. c cum ushion va s such as	Nos. Tail pie ged joints e 600000.0 using 20m omplete.(R 8941.83 lve of diame 200mm ai	ece, 2 Nos. Mea otc. including co 600000.00 m nominay size ate as per DSF 44709.15 eter - 200mm 8 ir cushion valv	chanical joi ost of surge 600000.0 0 e metal for R Observed 8941.85 c test press e - 1 No., 2	nts, cutting th arrestor.(Ra 600000.00 anchore bloo d data) 44709.25 ure 45 Kg/cm 200mm D/F (



			1.000	No	63841.4	63841.40	63841.40	63841.4			
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amour			
		· · ·	(B- (9) - Road		1						
1	od178589/201 Removal of un					·	metres lead	l but excluc			
	replacement by suitable soil which shall be paid separately (PWD sanctioned price rate-specification cod 3.11)										
			1246.87 5	cum	47.61	59363.72	47.60	59351.2			
	to the design	of Earthen Shoulder level by adding fre te-specification coc	sh approved s				-				
		K	erala ⁰ Wa	sqm ter A	41.25 uthorit	205734.38 V	41.25	205734.3			
3	od178592/2018_2019 Construction of granular sub-base by providing graded material, spreading in uniform layers with motor grade on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibrato roller to achieve the desired density, complete as per clause 401. Grading-IV - For lower sub base - Mix Place Method (PWD sanctioned rate-specification code-4.2.A2)										
			225.000	cum	3178.82	715234.50	3178.80	715230.0			
4	od178593/2018_2019 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 to tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface ar compacting with vibratory roller to achieve the desired density.(PWD sanctioned rate-specification code- 4.1)										
	1		150.000	cum	3344.36	501654.00	3344.35	501652.			



		1500.00 0	sqm	54.39	81585.00	54.40	81600.00			
6	od178595/2018_2019 Supplying and stacking 12mm hard to 3.2.1.a)- PWD sanctioned rate-specit	-			standard hear	os for mea	.surement(IRC			
		40.500	cum	2631.07	106558.34	2631.05	106557.53			
7	od178596/2018_2019 Supplying and stacking 6mm hard blue granite broken stone in standard heaps for measurement(IRC 3.2.1.a)- PWD sanctioned rate-specification code- 55.3									
		13.500	cum	2631.07	35519.45	2631.05	35519.18			
8	od178597/2018_2019 Supplying and stacking 36mm size har rate- specification code- 55.4)	d broken	stone in s	standard he	eaps for measu	Irement.(P	ND sanctioned			
		150.000	cum	2537.36	380604.00	2537.35	380602.50			
	departmental aggregates premixed wit required line, grade and level on a pre bitumen (VG 30) 10 sqm including mixi of 80-100 KN capacity, finished to rec departmental aggregates premixed wit rate-specification code-55.1.a	viously pr ng in a su juired leve	repared b litable pla el and gra	ase, after int, laying a ades,follow	priming the exi and rolling with red by a seal c	sting surfa a three wh coat of 0.09	ce with 5 kg of eel static roller d cum of 6 mm			
		1500.00 0	sqm	192.02	288030.00	192.00	288000.00			
10										
	1	196.875	cum	7032.06	1384436.81	7032.05	1384434.84			
11	od178600/2018_2019 CPlain/Reinforced Cement Concret Specifications PCC Grade M20 (-			•	-				
		98.438	cum	8523.47	839033.34	8523.45	839031.37			
SI No	Spec Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount			
	83 Appendix B - (9) - Road re	estoration	works- (b) Village/ F	anchayat/ PMC	SSY roads				

1	od178592/2018_2019 Construction of granular sub- on prepared surface, mixing	by mix in place me	thod with	n rotavator	at OMC, and o	compacting	with vibratory				
	roller to achieve the desired Place Method (PWD sanction		•		Grading-IV - Fo	or lower sub	base - Mix in				
		154.688	cum	3178.82	491725.31	3178.80	491722.21				
2	od178593/2018_2019 Providing, laying, spreading including premixing the Mate			00 0			•				
	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.(PWD sanctioned rate-specification code- 4.12)										
		103.125	cum	3344.36	344887.13	3344.35	344886.09				
	Prime Coat- Providing and an including clearing of road means.(PWD sanctioned r	surface and spray	ing prin	ner at the			-				
4	od178595/2018_2019 Supplying and stacking 12mm hard blue granite broken stone in standard heaps for measurement(IRC 3.2.1.a)- PWD sanctioned rate-specification code- 55.2										
		27.845	cum	2631.07	73262.14	2631.05	73261.59				
5	od178596/2018_2019 Supplying and stacking 6mm hard blue granite broken stone in standard heaps for measurement(IRC 3.2.1.a)- PWD sanctioned rate-specification code- 55.3										
		9.282	cum	2631.07	24421.59	2631.05	24421.41				
6	od178597/2018_2019 Supplying and stacking 36mm size hard broken stone in standard heaps for measurement.(PWD sanctioned rate- specification code- 55.4)										
							VD sanctioned				

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	od178598/2018_2019 Providing, laying and rolling of open graded premix carpet of 20 mm thickness with 0.27 cum of 12 mm departmental aggregates premixed with 12.96 kg of bitumen per 10 sqm using penetration grade bitumen to required line, grade and level on a previously prepared base, after priming the existing surface with 5 kg of bitumen (VG 30) 10 sqm including mixing in a suitable plant, laying and rolling with a three wheel static rolle of 80-100 KN capacity, finished to required level and grades,followed by a seal coat of 0.09 cum of 6 mm departmental aggregates premixed with 8.64 kg of bitumen per 10 sqm.By Manual Means- PWD sanctioned rate-specification code-55.1.a								
			1031.25 0	sqm	192.02	198020.63	192.00	198000.00	
8		g and laying in positic g - All work up to plir size)		Contraction of the local sectors of the local secto	-	-		-	
	1		67.500	cum	8340.93	563012.78	10609.70	716154.75	
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount	
	Palakkad	i.	Kerala Wa	ater A	uthorit	y			
		-	3.000	No	39140.29	117420.87	39215.55	117646.65	
2		/2020_2021 g and fixing 250mm Di	a Mechanical Flov	w motor					
	ARAD/ Z Palakkad	ENNER/ REYCHEM F					-		
							-		

	1.000	No	198254.1 7	198254.17	198329.4 0	198329.40		
	Estimate PAC							
	LMR Estimate PAC							
				Percentag	ge Excess	-1.06		
Rupees Eleven Crore Nine								



Kerala Water Authority PRICE

