

TAMILNADU WATER SUPPLY AND DRAINAGE BOARD
BID DOCUMENT
FOR OPERATION AND MAINTENANCE OF CWSS

HOGENAKKAL WATER SUPPLY AND FLUOROSIS MITIGATION PROJECT
PACKAGE – IV



NAME OF WORK : Operation and Maintenance of Hogenakkal Water supply and Fluorosis Mitigation Project in Dharmapuri and Krishnagiri Districts for the period of 48 months (From 01.04.2020 to 31.03.2024) – 3rd call - Package IV

List of Documents

(Cover – I)	
Volume – 1/8	Bid Document
Volume – 2/8	General and Particular Specification
Volume – 3/8	Mechanical, Electrical, ICA Equipments Spares Specification
Volume – 4/8	Civil Specification
Volume – 5/8	List of Equipments
Volume – 6/8	List of Drawings
Volume – 7/8	O&M Manual
(Cover – II)	
Volume – 8/8	BOQ – Price Bid

Last date of submission : Up to 03.00 P.M on 27-02-2020
Opening date : At 3.30 P.M on 27-02-2020

TAMILNADU WATER SUPPLY AND DRAINAGE BOARD
HOGENAKKAL WATER SUPPLY AND FLUOROSIS MITIGATION PROJECT
PACKAGE-IV



TECHNICAL BID COVER – I

Volume-1

BID DOCUMENT

NAME OF WORK :

Operation and Maintenance of Hogenakkal Water supply and Fluorosis Mitigation Project in Dharmapuri and Krishnagiri Districts for the period of 48 months (From 01.04.2020 to 31.03.2024) – 3rd call - Package IV

Description of work : Operation and Maintenance of Transmission Main From Common Booster Pumping Station at Moongilpatti near Palacaode to Thinnur Master Balancing Reservoir (MBR), Feeder Mains, Break Pressure Tanks, Booster Pumping Stations, Internal Transmission Mains, Internal Networks, Re-chlorination stations, Union MBRs and Panchayat MBRs and Allied works for providing water supply to Hosur Municipality, 2 Town Panchayats (Kelamangalam TP and Denkanikottai TP) and 1823 Rural Habitations in Hosur Union, Shoolagiri Union, Veppanapalli Union, Thally Union, Kelamangalam Union in Krishnagiri District and 100 Rural habitations in Karimangalam Union (part) in Dharmapuri District under Package IV of Hogenakkal Water supply & FM Project for the period from 01.04.2020 to 31.03.2024.

Last date of submission: **Upto 3.00 PM. on 27-02-2020**

CHECK LIST TO BE ENCLOSED BY BIDDER (along with Bid Documents)

The check list is only indicative and is to assist the bidder in satisfactorily enclosing all required major documents for Technical Qualification. The list is not exhaustive and the bidder should read all clauses of the bid document so as to enclose all documents as required.

A. BID SECURITY:

- I) Bid security for a value of Rs.21.30 Lakh to be furnished
 II) Furnish the details of Bid Security as under

Sl. No	Name of the Bidder	Amount and type of security	Issued by

B. ELIGIBILITY / QUALIFICATION CRITERIA

Sl. No	Description	Requirement as per Bid document Rs.in Crore	Particulars as furnished by the bidder	Page No. with ref. no. if any, where the particulars are furnished by bidder.
	Financial Turnover & Cash flow.			
1	Minimum Annual Turn Over in any one of the last Three financial years (2016-17, 2017-18 & 2018-19)	Rs 28.30 Crore		
2	Minimum Cash Flow: Minimum Cash flow required in Rs... in Crore	Rs 1.77 Crore		
3	Financial Turn Over in Similar Works : The bidder should have Satisfactorily - Completed Water Supply Scheme or Maintained Water Supply Scheme of value not less than Rs.28.30 Crores in the last five financial years (2014-15 to 2018-19) either a) in single agreement or b) in two agreements	Rs.28.30 Crore Rs.42.45 Crore		
4	Bid capacity The available Bid capacity	Rs.28.30 Crore		
5	Physical Work Experience in the last Five financial years (2014-15 to 2018-19)			

5.1	MS/DI/CI Pipeline in Kilo Metre (KM): Minimum Aggregate experience of pipeline in KM - MS/DI/CI Pipe - Should have supplied, laid, jointed, tested and satisfactorily completed or maintained for a continuous period of at least 1 year in the last five years	80 Km		
5.2	PVC/HDPE Pipeline in Kilo Metre (KM) Minimum aggregate experience of Pipeline in Kilometre (KM) - PVC/HDPE Pipe- should have Supplied, laid, jointed, tested and satisfactorily completed or maintained for a continuous period of at least 1 year in the last five years	243 Km		
5.3	RCC Water Retaining Structures in Lakh Litres (LL): Minimum aggregate experience of RCC Water retaining structures in Lake Litres (LL) -Completed and tested for water tightness or maintained for a continuous period of one year in the last five years	(a) 43.00 LL (b) Out of which Minimum 1 number of 5LL of sump / OHT/MBR/BPT		
5.4	Pumping Machinery in Kilo Watt (KW): Minimum Aggregate capacity of pumping machinery installed (KW)- erected, tested and successfully completed or maintained for a continuous period of at least 1 year in the last 5 years.	(a) 998KW (b) Out of which Minimum one number of 112KW (150 HP) Vertical Turbine / Centrifugal pumpset		
5.5	Transformer Substation: Minimum experience of transformer substation erected, tested and completed or maintained for a continuous period of at least one year in the last 5 years - 1 No of 250 KVA of Transformer Sub station	One No of 250 KVA of transformer substation		
6.	Whether performance eligibility for 5.1 to 5.5 above are based on certificate issued by the officer not less than the rank of Executive Engineer of that user departments and in the case of Private organization from the General Manager of that Organization (along with necessary countersignature / Notarisation & photographs)		(Yes / No)	
7.	Whether Annexure - I to XI are all filled up fully and enclosed?		(Yes / No)	

If Yes, give details as under (Notarized as per requirement)

Sl.No	Description	Page Nos. in the Bidders Document
1.	Performance of the bidder showing total monetary value of Civil Engineering works (completed or maintained water supply schemes) for the last three years (2016 – 17, 2017 – 18 & 2018-19) (7.1.4) (Annexure-I)	
2.	Average Annual Construction Turn over Civil Engineering works (completed or maintained water supply schemes) for the last three financial years (7.1.5) (Annexure-II)	
3.	Experience in works of similar nature of Magnitude within a period of last 5 financial years (2014-15, 2015-16, 2016-17,2017-18 & 2018-19) (7.1.6)(Annexure-III)	
4.	Commitment of works on hand (7.1.6) (Annexure-IV)	
5.	Works for which Bids are already submitted (7.1.6) (Annexure-V)	
6.	List of equipments available with bidder (7.1.7)(Annexure-VI)	
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8.	Sample Format for evidence of access to or availability of credit facilities (7.1.9) (Annexure-VIII)	
9.	Details of Litigation if any (7.1.10) (Annexure-IX)	
10.	Declaration by the bidder pertaining to blacklisting / banned/debarment etc., (7.1.11) (Annexure-X)	
11.	Format for O&M staff required for operating methodology (Annexure-XI)	
12	Affidavit as an undertaking given by the Contractor should be certified by the Notary duly stamped on a Notaries Stamp (Annexure-XII)	

8. List of Certificates to be enclosed by the Bidder.

(Notarised as per requirement)

Sl.No	Description	Page Nos. in the Bidders Document
1.	Signature of the proprietor or proprietors attested by the Notary public.	
2.	Signature of all the partners / power of attorney attested by the Notary public	
3.	Registration of the firm, Signature of all the authorized person attested by the Notary public	
4.	A copy of the listed Power of Attorney authorizing the signatory of the bidder.	
5.	Proof of Registration of firm / company	
6.	Audited Balance sheets for the last three financial years (2016-17, 2017-18 & 2018-19)	
7.	Credit line certificate from Financial institutions	
8.	Income Tax clearance certificate.	
9.	GST Registration certificate.	
10.	Certificate of performance issued by not less than the rank of Executive Engineer / Responsible person of the private organization.	

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(A) Annexures:

- 1) Performance of the Bidder showing total monetary value of Civil Engineering works (completed or maintained water supply schemes) for the last three years (2016 – 17, 2017-18 & 2018-19) (7.1.4) (Annexure-I)
- 2) Average Annual Construction Turn over Civil Engineering works (completed or maintained water supply schemes) for the last three financial years (7.1.5) (Annexure-II)
- 3) Experience in works of similar nature of Magnitude within a period of last 5 financial years (2014-15, 2015-16, 2016-17, 2017-18 & 2018-19) (7.1.6)(Annexure-III)
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- 5) Works for which Bids are already submitted (Annexure-V)
- 6) List of Equipments available with bidder (Annexure-VI)
- 7) Qualification/Experience of key personnel proposed for technical and administrative functions under this contract (Annexure-VII)
- 8) Sample Format for evidence of access to or availability of credit facilities (Annexure-VIII)
- 9) Details of Litigation if any (Annexure-IX)
- 10) Declaration by the bidder pertaining to blacklisting/debarment etc., (Annexure-X)
- 11) Format for O&M staff required for operating methodology (Annexure-XI)
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(B) Certificates:

- 1) Signature of the Proprietor or Proprietors attested by the Notary Public
- 2) Signature of all the Partners/Power of attorney attested by the Notary Public.
- 3) Registration of the firm, signature of the authorized person attested by the Notary public.
- 4) A copy of the listed Power of Attorney authorizing the signatory of the bidder
- 5) Proof of Registration of firm/company.
- 6) Audited Balance sheets for the last three financial years.
- 7) Credit line certificate from Financial Institutions.
- 8) Income Tax clearance certificate.
- 9) GST Registration certificate
- 10) Certificate of Performance issued by not less than the rank of Executive Engineer/Responsible person of the private organization.

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I. INVITATION OF BIDS – ITEM WAR (TWO COVER SYSTEM)

IFB No: (National Competitive Bidding)	23 / Hog Pkg.I to V / 3 rd call / DO / CE / VLR / 2020 /Dated : 23.01.2020.				
Name of Work	Operation and Maintenance of Hogenakkal Water supply and Fluorosis Mitigation Project in Dharmapuri and Krishnagiri Districts for the period of 48 months (From 01.04.2020 to 31.03.2024) – 3rd call				
	Package I	Package II	Package III	Package IV	Package V
Approximate value of work (Rs.in Crore)	22.00	23.15	23.40	28.30	26.70
Bid security (Rs.in Lakhs)	16.50	17.40	17.60	21.30	20.10
Eligible class	Class I	Class I	Class I	Class I	Class I
Tender invitee	The Chief Engineer, TWAD Board, Vellore – 632006.				
Sale of Bid & place of sale	From 27.01.2020 to 25.02.2020. Bid document may be purchased by remitting cash or DD in favour of concerned Executive Engineer of Project Maintenance Division for an amount of Rs.1000.00+12% GST(for each work) for Packages I to III from O/o the Executive Engineer, TWAD Board, Project Maintenance Division, Hogenakkal Project House Campus, A.Jettihalli (P.O), Dharmapuri-636807 for Package IV from O/o the Executive Engineer, TWAD Board, Project Maintenance Division, Dinnur Water Tank, Denkanikottai Road, Hosur-635 109 and for Package – V from O/o the Executive Engineer, TWAD Board, Project Maintenance Division, 5/85, Gopalakrishna Colony, Shanthi Nagar, Krishnagiri-635 001. If bid document is required by post an amount of Rs.500/-(for each work) to be paid additionally.				
web site down loading at free of cost	www.tenders.tn.gov.in and www.twadboard.tn.gov.in.				
For all Packages					
1.	Date and time of Pre bid meeting		11.02.2020 at 11.30 am at CE’s chamber, TWAD Board, Vellore.		
2.	Last date and time of downloading bid document		25.02.2020 up to 5.45 P.M		
3.	Last date and time for receipt of bid document		27.02.2020 up to 3.00 P.M		
4.	Last date and time for opening of Technical bid		27.02.2020 at 3.30 P.M		

Sd. P. Ramachandran 23.1.2020
 Chief Engineer (A/c),
 TWAD Board, Vellore

II. LETTER OF APPLICATION

(Letter head paper of the Applicant, including full postal address, telephone no., fax no., cable address, and E.mail)

Dated:.....

To

**The Chief Engineer,
TWAD Board,
No.8, 1st East Main Road,
Gandhi Nagar, Vellore – 632 006.**

Sir,

Being duly authorized to represent and set on behalf of

(Hereinafter "the Applicant"),

and having reviewed and fully understood all the information provided, the undersigned hereby apply for consideration as a bidder for the following

Invitation for Bid No.F.No: 23/ Hog Pkg.I to V/3rd call/DO/CE/VLR/ 2020 /Dated: 23.01.2020.

NAME OF WORK:

Operation and Maintenance of Hogenakkal Water supply and Fluorosis Mitigation Project in Dharmapuri and Krishnagiri Districts for the period of 48 months (From 01.04.2020 to 31.03.2024) – 3rd call - Package IV

Attached to this letter please find copies of original documents defining

- the Applicant's legal status
- the principal place of business and
- the place of incorporation (for applicants who are corporation) or the place of registration and the nationality of the owners (for applicants who are partnerships or individually owned firms)

Your Agency and its authorized representatives are hereby authorized to conduct any inquiries or investigations to verify the statements, documents and information submitted in connection with this application, and to seek clarification from the bankers and clients regarding any financial and technical aspects. This 'Letter of Application' will also serve as authorization to any individual or authorized representative of any institution referred to in the supporting information, to provide such information deemed necessary and requested by yourselves to verify the statements and information provided in this application, or with regard to the resources, experience and competence of the Applicant.

This application is made in the full understanding that

- Bids by the applicants will be subject to verification of all information submitted for consideration, at the time of bidding.
Your agency reserves the right to
- amend the scope and value of any contract bid under this project
- and reject or accept any application, to cancel the entire bidding process and reject all the applications and
- Your agency shall not be liable for any such action and shall be under no obligation to inform the Applicants of the grounds for them

It is hereby certified that the unit rates and price for all the items covered in the Bill of Quantities set out in the Price Schedule have been furnished clearly in figures and words and it is hereby agreed to execute the works at the rates and prices mentioned therein and to receive the payments on measured quantities as per the Conditions of the Contract.

It is hereby distinctly and expressly declared and acknowledged that before the submission of the bid, the instructions therein have been carefully followed and the conditions of the Contract and other terms and conditions have been read. It is also declared and acknowledged that careful examination of the bid documents has been carried out with reference to the specifications, quantities, location where the said work is to be done, investigation of the works to be done, materials required for this contract and their source and other requirements, covenants, stipulations and restrictions. It is distinctly agreed that no claim or demand will be made on the TWAD Board by the applicant, arising

out of any misunderstanding or misconception or mistake of the said requirements, covenants, stipulations, restrictions, conditions etc on the part of the Applicant.

The Income Tax Clearance Certificate and GST Registration Certificate in currency are enclosed.

The Bid Security of Rs. 21.30 Lakhs (Rupees Twenty One Lakhs and thirty thousand only) is enclosed in the shape of _____ (enter the form and other details of the bid security) drawn in favour of the Executive Engineer, TWAD Board, Project Maintenance Division, Hosur. It is hereby agreed that in case the bid is accepted, the Performance Security to the value and in the manner/form prescribed by Employer will be submitted and agreement entered into within the time frame stipulated for the due fulfilment of the contract. It is agreed that in the event of non remittance of the required Performance Security and execution of the Agreement within the stipulated time frame, the Bid Security deposited with the bid will be forfeited. In the event of non acceptance of the bid offered by the Applicant, the Employer shall intimate the applicant of the rejection of his bid, upon which the applicant can get his Bid Security refunded on an application for the same. Any notice required to be served on the applicant shall be deemed to have been sufficient if delivered personally or left at the address given herein or sent by post either by registered mail or ordinary. Such notice shall, if sent by post shall be deemed to have been served on the applicant at the time when in due course of post it would be delivered at the address to which it is sent. For all purposes, the address given herein will serve as permanent address and any change therein will be promptly intimated then and there.

It is fully understood and agreed that on receipt of communication of acceptance of the bid from the accepting authority, there emerges a valid contract between the Applicant and TWAD Board represented by the officer accepting the bid and is expressly agreed that the bid documents with the schedules, conditions of the contract, negotiation communications and other correspondence connected to this contract will all constitute the contract for this purpose and be the foundation of rights on both the parties.

It is agreed that performance shall be considered as the essence of this contract and the work will be commenced immediately on getting information of the acceptance of the bid and any lack in performance of operation and maintenance affecting the efficiency of electro-mechanical appurtenances, damages to pipe lines leading to short supply of water, will be subjected to the relevant penal clauses contained in the Conditions of the Contract.

It is hereby agreed that the professionally qualified personnel to execute and to supervise the works shall be deployed as required in clause 10 of General Conditions of Contract.

The Applicant hereby agrees to undertake full responsibility for the safety, stability and soundness of all infrastructures, electro-mechanical installations, pipeline networks, appurtenances, etc., which will be operated and maintained by me / us during the contract period.

The Applicant hereby agrees that the bid will not be withdrawn during the period of validity as indicated in the bid documents and also during such extended periods agreed to by the applicant. The Applicant agrees that in the event of withdrawal of the bid during the validity period or extended period, the Bid Security is liable to be forfeited by Employer.

It is explicitly understood that the Employer is not bound to accept the lowest or any bid the Board may receive. It is hereby agreed that the Employer reserves the rights to reject any or all the bids without assigning any reasons therefor.

Dated this _____ day of _____
Month of _____

Signature of the Applicant
(To be signed by the authorized
Signatory with seal)

NAME OF WORK: Operation and Maintenance of Hogenakkal Water supply and Fluorosis Mitigation Project in Dharmapuri and Krishnagiri Districts for the period of 48 months (From 01.04.2020 to 31.03.2024) – 3rd call - Package IV

III. INSTRUCTIONS TO BIDDERS

A. GENERAL

1. Scope of the Hogenakkal Water Supply and Fluorosis Mitigation Project

The Hogenakkal Water Supply and Fluorosis Mitigation Project with River Cauvery as source, with main objectives of (i) to provide safe drinking water to 3 Municipalities, 16 Town Panchayats and 7,639 habitations (including New habitations 884 Nos) in 18 Panchayat Unions in Dharmapuri and Krishnagiri districts and (ii) to mitigate the effects of Fluorosis disease caused by fluoride contents in the ground water sources, covering the total population of 35 Lakhs in two districts of Dharmapuri & Krishnagiri, spread over 9,650 sqkm and the scheme is implemented for ultimate quantity of 160 MLD.

The Project has been divided into 5 packages for easy Operation and Maintenance. Under this project, laying of about 10,169 Km of pipelines with pipe sizes ranging from 1500 mm to 63 mm dia. and construction of 1,627 civil structures are executed. By drawing water at an elevation of 246m and pumping to a habitation located at an elevation of 1,245 m through a combination of gravity and pumping systems.

In Dharmapuri District, Dharmapuri Municipality, 10 Town Panchayats and 3,245 habitations (including 355 new habitations) in 8 Panchayat Unions have been covered with total population of 16.10 lakhs in this project.

In Krishnagiri District, Krishnagiri & Hosur Municipality, 6 Town Panchayats and 4,403 habitations (including 529 new habitations) in 10 Panchayat Unions have been covered with total population of 18.90 lakhs in this project.

The source of water for this project is River Cauvery at Hogenakkal at a distance of 45 km west of Dharmapuri. The Raw water is taken from River Cauvery on the upstream side of the famous Hogenakkal waterfalls and pumped to Water Treatment Plant located at a distance of 6.15 km from the Intake works. The scope of project is to cover 7,639 Habitations, 3 Municipalities, 16 Town Panchayats and 18 Unions, benefiting about four million people. Treated water will be pumped to 240LL capacity Master Balancing Reservoir at Madam, about 11 km from Hogenakkal.

Two line of MS pipe outlets are provided at Master Balancing Reservoir at Madam. Through Transmission main of one outlet, water is conveyed by gravity to Union MBR's of Pennagaram Union (Part), Nallampalli Union and upto Nallampalli Union Sump at Sowlur, Dharmapuri Union, Mathur Union, Uthangarai Union, Morappur Union, Harur Union and Pappireddipatty union and Dharmapuri Municipality. From Union MBR's water is conveyed by gravity to Panchayat MBRs/Sumps and Pennagaram TP, Uthangarai TP, Kambainallur TP, Kadathur TP, B.Mallapuram TP, Harur TP and Pappireddipatty TP. From Nallampalli Union Sump at Sowlur water is conveyed by Pumping to 19 Panchayat MBR's. For habitations of Sitheri and Sittilingi Panchayats in Pappirddipatty and Harur Union, located in Kalvarayan hills water is conveyed by Pumping directly to OHTs. From Panchayat MBRs, water is conveyed to OHTs mostly by Gravity with coverage of 3066 rural habitations in Dharmapuri and Krishnagiri Districts.

From Transmission main of another outlet of Madam MBR, water is conveyed by gravity to Sumps at O.G.Halli and Pikkili and to the common sump located at Moongilpatti. From Pikkili sump water is conveyed by pumping to 5 Panchayat MBRs of Pennagaram Union (Part). From O.G.Halli sump water is conveyed by pumping to 5 Panchayat MBRs of Pennagaram Union (Part) and Papparapatty TP. From Moongilpatti common sump water is conveyed by pumping to Palacode TP, P.Chettihally Sump and Palacode Union MBR. From Palacode Union MBR, water is conveyed by gravity to 7 Panchayat MBRs and by on-line booster to 8 Panchayat MBRs. From P.Chettihalli Sump, water is conveyed by pumping to 17 Panchayat MBRs and Marandahalli TP.

From Common sump at Moongilpatty water is conveyed to by series of Booster Pumping Stations at Mahendramangalam, Kaduchettipatti, Ullukurukkai to Jakkari MBR. From Jakkari MBR water is conveyed by gravity to Kundumanahalli BPS. From Kundumanahalli BPS water is conveyed by pumping to Mathagiri BPS and Thinnur Union MBR. From Thinnur Union MBR water is conveyed by gravity to Hosur Municipality, 4 Panchayat MBRs in Shoolagiri Union, 9 Panchayat MBRs in Hosur Union and to Booster Sump at Badethepally. From Badethepally Sump water is conveyed by pumping to 7 Panchayat MBRs of Hosur Union and 26 Panchayat MBRs / Sump of Shoolagiri Union. From Kaduchettipatty BPS water is conveyed by gravity to 5 Panchayat MBRs of Karimangalam Union. From Kaduchettipatty BPS water is conveyed by Pumping to Rayakottai MBR. From Rayakottai MBR water is conveyed by Gravity to 8 Panchayat MBRs in Kelamangalam Union, 10 Panchayat MBR's in Shoolagiri Union and 27 Panchayat MBRs/Sumps in Vappinapalli Union. From Jakkery MBR water is conveyed by Gravity to 2 panchayat MBR's of Shoolagiri Union, 20 panchayat MBR's/Sump of Kelamangalam Union, and 22 panchayat MBR's/Sump of Thalli Union, Kelamangalam TP and Thenkanikottai TP. From Mathigiri BPS water is conveyed by pumping to 10 panchayat MBR's of Hosur Union, 28 panchayat MBR's of Thalli Union.

From Common sump at Moongilpatty water is conveyed by pumping to Karimangalam Union MBR and BPT at Kalkuttapatty. From Karimangalam Union MBR water is conveyed by gravity to Karimangalam TP, 23 Panchayat MBRs/Sump and one sump near MBR. From this sump near the MBR, water is conveyed by pumping to 3 Panchayat MBR's of Karimangalam union. From Kalkuttapatty BPT water is conveyed by gravity to Kaveripattinam TP, Nagojanahalli TP and 35 Panchayat MBRs and 4 panchayat sumps of Kaveripattinam Union. One panchayat INW is directly linked to ITM in Kaveripattinam union. From Kalkuttapatty BPT water is conveyed by gravity to BPS at Avathanapatty, P.Muthur Panchayat MBR of Krishnagiri Union, Krishnagiri Municipality, Kandhikuppam BPS, 2 BPS of Bargur TP and BPS at Karakuppam. From BPS at Avathanapatty water is conveyed by pumping to 21 panchayat MBR's and 9 panchayat sumps of Krishnagiri union. From BPS at Kandhikuppam water is conveyed by pumping to 4 Panchayat MBR's of Bargur union. From 2 BPS of Bargur TP water is conveyed to OHT's of Bargur TP by pumping. From Karakuppam BPS water is conveyed by pumping to Bargur union MBR at Kotlatti. From Kotlatti MBR water is conveyed by gravity to BPS at Chinthagampalli. From BPS at Chinthagampalli water conveyed to 2 panchayat sumps and 2 panchayat MBR's of Bargur union. From Union MBR at Kotlatti water conveyed by gravity to 29 panchayat MBR'S and 4 panchayat sumps of Bargur union. From panchayat MBR's water conveyed mostly by gravity to OHT's of habitations and in few cases by pumping through intermediate INW sumps. Thus from the MBR at Madam, water is conveyed through a network of Transmission Main, Feeder Mains, Internal Transmission Mains and Internal Networks of about 10,109 km length of pipes spread over Dharmapuri and Krishnagiri districts.

Scope of the Bid

1.1 The Chief Engineer, TWAD Board, Vellore (hereinafter referred as "Employer" in these documents) invites bids for the Operation and Maintenance of works (as defined in these documents and referred as "the works") as detailed in the Bill of Quantities. The bidder shall offer their/his price for all the items of works detailed in the Bill of Quantities

NAME OF WORK:

"Operation and Maintenance of Hogenakkal Water supply and Fluorosis Mitigation Project in Dharmapuri and Krishnagiri Districts for the period of 48 months (From 01.04.2020 to 31.03.2024) – 3rd call - Package IV."

Description of work : Operation and Maintenance of Transmission Main From Common Booster Pumping Station at Moongilpatti near Palacaode to Thinnur Master Balancing Reservoir (MBR), Feeder Mains, Break Pressure Tanks, Booster Pumping Stations, Internal Transmission Mains, Internal Networks, Re-chlorination stations, Union MBRs and Panchayat MBRs and Allied works for providing water supply to Hosur Municipality, 2 Town Panchayats (Kelamangalam TP and Denkanikottai TP) and 1823 Rural Habitations in Hosur Union, Shoolagiri Union, Veppanapalli Union, Thally Union, Kelamangalam Union in Krishnagiri District and 100 Rural habitations in Karimangalam Union (part) in Dharmapuri District under Package IV of Hogenakkal Water supply & FM Project for the period from 01.04.2020 to 31.03.2024.

This is an Operation and Maintenance of contract and the contractor is responsible for the Operation and Maintenance of water supply works to supply the water to the designated beneficiaries including maintenance of all Structures, Electrical, Mechanical, ICA Installation, Feeder Main, Transmission Main, Internal Transmission Main, Internal Network of MS,DI, HDPE pipes, Procurement of Spares, for Attending to Leaks and Bursts, Repairs and Renewals of Structures and Installation, Insurances with required Supervisory and Operating Staff and all other logistics in complete and ensuring uninterrupted designated water supply to the beneficiaries as designated for the areas covered under HWS&FMP Package-IV. As detailed below

The quantity of (Refer BOQ) Water has to be supplied to Hosur Municipality Kelamangalam and Denkanikottai Town Panchayats and 1923 Rural habitation in 182 panchayats in Hosur Union, Soolagiri Union, Veppanapalli Union, Kelamangallam Union, Thally Union and Karimangalam (Part) of both the Krishnagiri and Dharmapuri Districts.

SI No	Beneficiaries	No of Pts	No of Habs	Population	Requirement
				Inter (2021)	Inter (2021) MLD
1	Hosur Municipality			125000	5.88
2	Mathagiri TP			9719	0.47
3	Kelamangalam TP			13276	0.64
4	Denkanikottai TP			23343	0.90
5	Karimangalam Union (Part)	5	100	31186	1.02
6	Veppanapalli Union	27	257	90191	3.11
7	Shoolagiri Union	42	430	191951	6.61
8	Hosur Union	30	230	168851	5.81
9	Kelamangalam Union	28	332	127542	4.39
10	Thally Union	50	574	196403	6.76
		182	1923	977462	35.59

1) Pipe Details (in KM)

Sl. No	Details of Pipe	Transmission Main	Feeder Main	Internal Transmission Main	Internal Net Work
1	MS Pipe				
	850 mm	23.010			
	750 mm	27.210			
	700 mm	15.060			
	600 mm	1.890			
	Total	67.170			
2	DI Pipe				
	500 mm			12.490	
	450 mm			15.210	
	400 mm			26.220	
	350 mm		7.270	44.690	
	300 mm			14.640	
	250 mm			60.890	
	200 mm			67.690	
	150mm			156.350	10.160
	100 mm			246.770	70.630
	Total		7.270	641.920	80.790

3	HDPE Pipe				
	280 mm			3.110	
	250 mm			7.370	
	225 mm			1.650	
	200 mm			6.990	2.930
	160 mm			5.870	1.710
	140 mm			24.030	20.050
	125 mm			7.120	1.140
	110 mm			28.890	58.890
	90 mm			74.490	96.700
	75 mm			38.420	131.040
	63 mm			79.080	1841.210
	Total			277.020	2153.670
	Grand Total	67.170	7.270	918.940	2234.460

2) Civil Structures.

Sl. No	Capacity	Union MBR	Pts. MPR	Union Sump	Pts. Sump	BPT	OHT - 16m	OHT - 6m
1	35 Lakh Litres			2				
2	30 Lakh Litres			1				
3	20 Lakh Litres	1		1	2			
4	14.00 Lakh Litres							
5	13.00 Lakh Litres				1			
6	12 & 10 LL Combined @ Jakkeri	1						
7	10.00 Lakh Litres		1					
8	9.00 Lakh Litres				1			
	7.00 Lakh Litres					1		
9	6.00 Lakh Litres	1		1				
10	5.00 Lakh Litres				1	1		
11	4.00 Lakh Litres							
12	3.00 Lakh Litres				4			
13	2.50 Lakh Litres							
14	2.00 Lakh Litres		1		5			
15	1.50 Lakh Litres		4		4	3		
16	1.00 Lakh Litres		17		18	3		
17	0.60 Lakh Litres		33		20			1
18	0.30 Lakh Litres		83		27	4		6
19	0.15 Lakh Litres				5	1		
20	0.10 Lakh Litres		36		20	13		42
21	0.05 Lakh Litres				13	6		
	Total	3	175	5	121	32	0	49

3) SCADA Details

SI No	Location	BPS	UR	TP	Telemetry	No of Panels
1	Moongilpatty (common BPS) at Palacode	1	0	0	0	1
2	Mahendramangalam (Shifted from Bomma Thathanur)	1	0	0	1	1
3	Kaduchettipatti	1	1	2	1	4
4	Ullukkurukai (shifted from H.chettihalli)	1	0	0	1	1
5	Jakkeri (Bodichipalli)		2	1	1	3
6	Kundumaranapalli	1	0	0	1	1
7	Mathagiri	2	1	1	1	4
8	Thinnur (Hosur)	0	1	1	1	2
9	Rayakkottai	0	1	0	1	1
10	Rayakkottai Thakkali Mandi	1	0	0	1	1
11	Sulagiri (Thiagarasanapalli)	1	0	0	1	1
12	Kuriyanapalli (Ipiganapalli)	1	0	0	1	1
13	Pathimadugu (Neralagiri)	1	0	0	1	1
14	Arasakuppam	2	0	0	1	2
15	Denkanikottai	3	0	0	1	3
16	Doddamanchi (MBR-2)	1	0	0	1	1
17	Kundumaranapalli (Bairamangalam)	1	0	0	1	1
18	Beganatham	1	0	0	1	1
19	Binnamangalam	1	0	0	1	1
20	Agala Kotta (Sump to Agalakotta MBR)	1	0	0	1	1
21	Thummanapalli (Baduthepalli)	1	0	0	1	1
22	Thagati	1	0	0	1	1
23	Bilikal	1	0	0	1	1
24	Athinatham	1	0	0	1	1
25	Kodakarai(Doddamanchi 2)	1	0	0	1	1
26	Betamugilalam	1	0	0	1	1
	Total	27	6	5	25	38

4) Pumpset Details

	Location		HP	Total	Working	Stand By
I	<u>PUMPING STATIONS</u>			-	-	-
A	TRANSMISSION MAIN , FEEDER MAIN and ITM LINE					
1	Moongilpatti Common Major BPS	General	536	3	2	1
2	Magendramangalam Major BPS	General	536	3	2	1
3	a)Kaduchettipatti (to) Ullukurukai Major BPS	General	402	3	2	1
	b) Kaduchettipatti (to) Rayakottai Major BPS	General	201	2	1	1
	c) Kaduchettipatti (ReChlorination TP 1A) Karimangalam part	General	2	2	1	1
4	a) Rayakottai(Union MBR) (ReChlorination TP 1)	General	2	2	1	1
	b) Rayakottai Sump to Rayakottai Pachayat	General	10	2	1	1
5	Ullukurukai Major BPS	Forest	536	3	2	1
6	Jakkeri (ReChlorination TP 2)	General	2	2	1	1
7	Kundumaranahalli Major BPS	General	402	3	2	1
8	a) Mathagiri Major BPS to Binnamangalam	Hosur Taluk	120	2	1	1
	b) Mathagiri Major BPS to Masinayakanpalli	Hosur Taluk	25	2	1	1
	c) Mathagiri Major BPS to Mathagiri TP	Hosur Taluk	12.5	3	2	1
	d) Mathagiri (ReChlorination TP 3)	Hosur Taluk	2	2	1	1
9	Dinnur (ReChlorination TP 4)	Hosur Taluk	2	2	1	1
10	a) Arasakuppam Major BPS to Denkanikottai Major BPS	General	177	2	1	1
	b) Arasakuppam Major BPS Mallasandiram	General	5	2	1	1
11	a)Denkanikottai Major BPS to Noganur Sump	General	177	2	1	1
	b)Sump to Thandarai	General	3.0	2	1	1
	c) Sump to Ballapalli	General	25.0	3	2	1
	d) Sump to Denkanikottai	General	25.0	2	1	1
	e) Sump to Thavarakarai	General	15.0	2	1	1
12	Binnamangalam Major BPS	General	120	2	1	1
13	Badethepalli Major BPS	Hosur Taluk	73	2	1	1
B	<u>Hosur Union LT BPS</u>					
14	Masinayakanpalli (Virupatchipuram)	Hosur Taluk	3.0	2	1	1
15	Nagondapalli	Hosur Taluk	5.0	2	1	1
16	Gopanapalli	Hosur Taluk	3.0	2	1	1
17	Byragapalli	Hosur Taluk	2.0	2	1	1

18	Hanumanthapuram	Hosur Taluk	2.0	2	1	1
19	Chennathur- 1	Hosur Taluk	5.0	2	1	1
20	Chennathur- 2	Hosur Taluk	3.0	2	1	1
21	Sevaganapalli	Hosur Taluk	5.0	2	1	1
22	Baliganapalli	Hosur Taluk	5.0	2	1	1
23	Kumudhepalli	Hosur Taluk	3.0	2	1	1
24	Eachangur - Chookakranathapuram	Hosur Taluk	3.0	2	1	1
25	Nallur	Hosur Taluk	2.0	2	1	1
26	Muthali - Karupalli	Hosur Taluk	1.0	2	1	1
27	Muthali - Thachiripalli	Hosur Taluk	3.0	2	1	1
28	Thummanapalli - Sanamangalam	Hosur Taluk	1.0	2	1	1
29	Nandhimangalam - Karanapalli	Hosur Taluk	2.0	2	1	1
30	Begapalli - Sri rajeswari Layout	Hosur Taluk	2.0	2	1	1
31	Bagalur Junction	Hosur Taluk	10.0	2	1	1
C	<u>Karimangalam Union- Part</u>					
32	Bikkanahalli- 2 - BPS-1	General	12.5	2	1	1
33	BPS-1 to EM Kuzhi (Samanakollai)	General	15.0	2	1	1
34	BPS-2 to Sembaragettu (Kovilur)	General	2.0	2	1	1
35	BPS-3 to Soolagunta (Murukan kottai)	General	10.0	2	1	1
36	BPS to Kulikadur (Chinna thappai)	General	5.0	2	1	1
37	Jittanahalli to BPS1 (Periyathabbai)	General	15.0	2	1	1
38	BPS-1 to Natagalbail (Mathageri)	General	10.0	2	1	1
39	BPS to Periyakodikanapalli	General	1.0	2	1	1
D	<u>Kelamangalam Union</u>					
40	BPS to Medagraharam (Tamato Market)	General	10.0	2	1	1
41	BPS to Guttur	General	2.0	2	1	1
42	Rayakottai colony	General	12.5	2	1	1
43	Bodichipally	General	12.5	2	1	1
44	Bairamangalam	General	20.0	2	1	1
45	Jakirkarupalli	General	12.5	2	1	1
46	Benvanatham	General	7.5	2	1	1
47	Betamugulalam BPS 1	Forest	20.0	2	1	1
48	Betamugulalam BPS-1 to BPS 2	Forest	35.0	2	1	1
	Bettamugulalam -2 to Doddamanchi MBR-2	Forest	3.0	2	1	1
49	Betamugulalam BPS 3	Forest	20.0	2	1	1
50	BPS to BPS-1 Tholuvabetta	Forest	12.5	2	1	1
	BPS -1 to Doddadebenahalli	Forest	5.0	2	1	1
51	BPS - 2 to Palaiyur	Forest	3.0	2	1	1
52	BPS-1 to Belalalm thottikuppam	Forest	5.0	2	1	1
53	BPS to Ayyur	Forest	1.0	2	1	1
54	BPS to U-puram	Forest	5.0	2	1	1

55	BPS at Edavanapalli - Veppalampatti	Forest	2.0	2	1	1
56	BPS - 1 to Govindapuram	Forest	2.0	2	1	1
57	BPS 4 to Kuddiyur	Forest	1.0	2	1	1
58	BPS - 3 BPS -4 Kuddiyur	Forest	1.5	2	1	1
59	BPS-2 to Karadikuttai	Forest	1.0	2	1	1
E	Shoolagiri Union					
60	BPS-1 to Somanapalli (Shoolagiri)	Hosur Taluk	20.0	3	1	2
61	BPS to Gittanpatti	Hosur Taluk	1.0	2	1	1
62	BPS to Balagoundarayandurgam	Hosur Taluk	2.0	2	1	1
63	BPS to Erandapalli/ Sorakkayapalli	Hosur Taluk	2.0	2	1	1
64	BPS-1 to Medupalli	Hosur Taluk	1.0	2	1	1
65	BPS- 2 Sundagiri	Hosur Taluk	7.5	2	1	1
66	BPS to Naralapalli	Hosur Taluk	5.0	2	1	1
67	BPS to Kattunalckendoddi	Hosur Taluk	3.0	2	1	1
68	BPS to Ponnalnatham	Hosur Taluk	2.0	2	1	1
69	BPS to Sivapparkottai	Hosur Taluk	2.0	2	1	1
70	BPS -2 Sundati	Hosur Taluk	3.0	2	1	1
71	Nariganapuram	Hosur Taluk	5.0	2	1	1
72	Saparapalli	Hosur Taluk	3.0	2	1	1
73	Oddarpalayam / Beemanapalli	Hosur Taluk	3.0	2	1	1
74	Beerjepally	Hosur Taluk	1.0	2	1	1
75	Alusonai	Hosur Taluk	5.0	2	1	1
76	Thinnur	Hosur Taluk	1.0	2	1	1
77	Periyakuthi	Hosur Taluk	7.5	2	1	1
78	Dasanapuram	Hosur Taluk	2.0	2	1	1
79	Venkatesapuram	Hosur Taluk	15.0	2	1	1
F	Thally Union					
80	BPS to Kottaiyur-2	Forest	5.0	2	1	1
81	BPS -2 to Noorthusamimalai	Forest	5.0	2	1	1
82	Thagatti -1 Sivapuram	Forest	7.5	2	1	1
83	BPS to Udubarani	Forest	5.0	2	1	1
84	Doddamanchi BPS-1 to BPS-2	Forest	20.0	2	1	1
85	Doddamanchi BPS-2 to BPS-3	Forest	7.5	2	1	1
86	Doddamanchi BPS-3 to BPS-4	Forest	12.5	2	1	1
87	Doddamanchi BPS-3 to melagiripannur	Forest	5.0	2	1	1
88	Doddamanchi 2 - Doddiyur Koddikarai	Forest	7.5	2	1	1
89	BPS for Thurkatti	Forest	5.0	2	1	1
90	Thandarai - Gandhinagar	Forest	3.0	2	1	1
91	BPS -1 Kadakanatham	Forest	12.5	2	1	1
92	BPS-2 Akka thangai	Forest	2.0	2	1	1
93	BPS to Matamathagiri	Forest	3.0	2	1	1
94	Doddadebenahalli 2 to Kodaikarai	Forest	5.0	2	1	1
95	BPS -5 to kullati	Forest	1.0	2	1	1

96	Karandapalli	General	15.0	2	1	1
97	Thakkati check post	Forest	20.0	2	1	1
98	BPS to Athinatham	Forest	15.0	2	1	1
99	BPS 1 to Manjugondapally	Forest	15.0	2	1	1
100	BPS 2 to Manjugondapally	Forest	20.0	2	1	1
	BPS to Billikal	Forest	7.5	2	1	1
101	Bilikal 3 - Manjukondapally BPT-1	Forest	7.5	2	1	1
102	BPS to Gundukottai 2	Forest	10.0	2	1	1
103	Manjukondapally BPS 3 to BPS-4	Forest	7.5	2	1	1
104	Athinatham BPS 1	Forest	7.5	2	1	1
	Athinatham koot road to Udabarani	Forest	7.5	2	1	1
105	Kempatty & Sathanur-2	General	7.5	2	1	1
106	Agalakotta	Forest	12.5	2	1	1
	Padinganalam	Forest	7.5	2	1	1
107	Upparapalli	General	2.0	2	1	1
108	CR Nagar	General	2.0	2	1	1
109	Sollepuram	General	1.0	2	1	1
110	Sllikimangalam	General	5.0	2	1	1
111	Marugandoddi	General	2.0	2	1	1
112	Nelumani Agraharam	General	5.0	2	1	1
113	Muthukumaran doddi	General	3.0	2	1	1
114	Mallikuttai	General	3.0	2	1	1
115	Polarai	General	2.0	2	1	1
116	Oddarpalayam	General	3.0	2	1	1
117	Adavi sahipuram	General	2.0	2	1	1
118	Gundalam	General	5.0	2	1	1
G	<u>Veppanapally Union</u>					
119	BPS3 - Kuriyanapalli	General	3.0	2	1	1
120	BPS4 - Bathimadugu	General	10.0	3	2	1
121	BPS to Ariyanapalli	General	1.0	2	1	1
122	Avalnatham	General	5.0	2	1	1
123	BPS to Undakkalpudur	General	5.0	2	1	1
124	BPS TO Kadayanmedu	General	3.0	2	1	1
125	BPS to Veppanapally	General	5.0	2	1	1
126	Halekundani-2	General	5.0	2	1	1
127	Vanniyar kollapankottai	General	2.0	2	1	1
128	Thamandarapalli	General	5.0	2	1	1
129	Neralagiri	General	5.0	2	1	1
130	Naduvanapalli	General	5.0	2	1	1
131	Manavarapalli	General	5.0	2	1	1
132	Nachikuppam	General	5.0	2	1	1
133	Madepalli	General	7.5	2	1	1
134	Sigaramanapalli	General	10.0	2	1	1
135	Athigunda BPS	General	10.0	2	1	1
136	Chinna Kothur X Road	General	7.5	2	1	1
	Total		4226.50	313.00		

5) Transformer Details

Sl.no.	HT Transformer Location in PKG-IV				
1	Mahendramangalam	1600	KVA	1280	KW
2	Kaduchettipatti	1600	KVA	1280	KW
3	Ullukurukai	1500	KVA	1200	KW
4	Kundumaranahalli	1500	KVA	1200	KW
5	Mathagiri	250	KVA	200	KW
6	Arasakuppam	315	KVA	252	KW
7	Denkanikottai	315	KVA	252	KW
8	Binnamangalam	200	KVA	160	KW
9	Badethepalli	160	KVA	128	KW

6) Valve Details

Hogenakkal Water Supply & Fluorosis Mitigation Project				
Package-IV				
S.No	Description	Operating Valves	Air Relief Valves (Nos)	Total No of Valves
A	Transmission Main	61	71	
	Total	61	71	132
B	Feeder Main	6	11	
	Total	6	11	17
C	Inter Transmission Main			
A	Veppanapalli Union	100	258	
B	Karimangalam Union	26	68	
C	Thally Union	138	172	
D	Kelamangalam Union	135	211	
E	Shoolagiri Union	120	120	
F	Hosur Union	92	120	
	Total	611	949	1560
D	Internal Net Work			
A	Veppanapalli Union	273	243	
B	Karimangalam Union	116	126	
C	Thally Union	751	502	
D	Kelamangalam Union	611	424	
E	Shoolagiri Union	417	365	
F	Hosur Union	330	173	
	Total	2498	1833	
	Grand Total	3176	2864	6040

DESCRIPTION OF THE WORKS

Scope

Madam MBR is being located at the commanding level to feed the rural and urban areas with maximum services of drinking water supply to the public requirements of Package IV by collection of water for the beneficiary's demand at Moongilpatti sump by gravity. The entire Transmission Main is aligned from Moongilpatti Booster Station whose level is at + 494.105 m to Thinnur at Hosur which is at the level of 896.215 Package IV level. The total length of the main is about 66.40 Km of MS pipe ranging from 850mm to 600 mm and there are 5 boosters including Moongilpatti Booster to supply to the enroute Union areas of Karimangalam (part), Kelamangalam, Thally, & Hosur and with branch Internal Transmission Mains to Shoolagiri and Veppanapalli Unions. Kelamangalam, Denkanikottai Town Panchayats along with Hosur Municipality is provided with drinking water supplying by internal network and distribution system from OHTS. There are 5 tapping points namely Kaduchettipatti, Rayakottai, Jakkeri, Mathigiri and Thinnur along the pressure mains to feed all the areas above by pumping from sumps with pumping plants to negotiate the elevation to supply to the public.

The distribution of treated water is supplied to most of the sites by gravity arrangements. Where gravity feed will not be feasible due to their altitude, booster pumping stations provided for the necessary hydraulic lift. The treated water trunk mains from the MBR at MADAM to reach Common Booster Pumping Station for Packages IV and V near Palacode, where there are one storage reservoir (two separate compartments) and one pump well commonly be used by this Contract and the contract of Package V. The civil structure, the high voltage (33 KV or 111(V) electrical works and the building services works of this Common Booster Pumping Station, which has been commonly used by both this Contract and Package V, shall be provided under this Contract. For the works in this Contract in this Common Booster Pumping Station, the Contractor has to maintain mechanical plants, electrical plants and instrumentation works, including the booster pumps (vertical turbine type), pipelines, valves, overhead cranes, LV switchboard, flow meters, level sensors/transmitters etc. Under the Contract, treated water from this Common Booster Pumping Station shall be discharged to Mahendramangalam sump water will be pumped to Kaduchettipatti Booster Station sump. At Kaduchettipatti(A) Feeder Main to Rayakottai MBR and to feed water to villages in Veppanapalli Union and Kelamangalam Union, (B) by gravity main to Karimangalam union (part) separately from Kaduchettipatti sump (C) water will be pumped to Ullukurukkai sump.

Ullukurukkai sump water is pumped to Kundumaranahalli and enroute tapping at Jakkeri has to supply water to Kelamangalam Union, 2 Nos of Kelamangalam Town Panchayat and Denkanikottai Town Panchayat. Further the treated water has been pumped from Kundumaranahalli to Thinnur MBR in Hosur and for Mathigiri BPS to supply water to Mathigiri Tapping point. From Mathagiri TP water will be supplied to Hosur Municipality and to Thally union and Hosur Union villages.

The alignment route is Near Palacode Vellichandai, Rayakottai and Ullukurukkai Kunudmaranapalli and Thinnur in Hosur.

There are five booster stations at Moongilpatti, Mahendramangalam, Kaduchettipatti, Ullukurukkai and Kundumaranahalli with sump sand MBR and then the tapping points the water is supplied to Union MBRS and OHTS in habitations of Package IV of various capacities.

The Transmission pipeline from 850 mm size to 600mm size is of MS for a total length of 66.400KMs and the distribution network is for 2129.480KMs of HDPE/DI pipes have to be maintained.

There are 645 Nos. of RCC of MBRS, Sumps, Pump Houses, OHTs in the distribution area from Moongilpatti Booster Station to the habitation end to supply to all the beneficiaries up to agreement period.

The treated water trunk mains and the branch pipelines have to be maintained which are passing across the rivers, roads and railway by the Contractor. For the purpose of isolation, control and surge protection, the Contractor has to maintain all valves for Isolation, air valves for surge protection and valves for flow control.

Through the SCADA System, the signals of the levels in the union reservoirs, the flow/volume of water delivering from the tapping point branches to the union/panchayat reservoirs, the positions of all the major isolating/modulation valves, signals from the Re-Chlorination Stations and signals from the major booster pumping stations displayed in the Human Machine Interface pages at the two Central Control Rooms (CCRs), that are located at the filter building of the Water Treatment Plant and the Tamil Nadu Water Supply and Drainage Board (TWAD) Project Office at Dharmapuri. Through the SCADA System, operators of the Engineer shall be able to modulate the position of the flow control valves and open/close isolating valves at the CCR5. The SCADA System is to be operated by the Engineer under Package I of the Hogenakkal Water Supply and Fluorosis Mitigation Project. The Contractor shall work closely with the contractor of Package I & V to enable all the control/status signals of all the devices that are to maintain at the sites of Package IV to function properly.

The Contractor shall be responsible for all insurances, where the cost of providing that entered into items in the Schedule of Prices. After the Contractor has satisfactorily complete the 48 months operation and maintenance works the Engineer will take-over the whole Works

The Works contain a 3 months Defects Liability Period. Prior to handover the whole works to the Engineer the contractor has to conduct and satisfactorily complete the Test on Completion of O&M works. The scope of the tests to be done in this Test on Completion is detailed in the above of this General Specification.

1.1.1 Works to be provided by the Contractor

Under this Contract, the Contractor has to maintain all the works in accordance with the Drawings, Specification and Bill of Quantities, which includes:

- (a) The works includes the supply of treated water trunk mains pipelines originate from the tapping-point branches pipelines from the trunk mains to the union reservoirs, main panchayat reservoirs and the distribution pipelines to other reservoirs, booster pumping stations and overhead tanks;
- (b) Maintaining all supports, piers and appurtenances for above ground river and culvert crossings.
- (c) Operation and Maintenance of valve chambers at the tapping-point branches (as shown in Table 3) of the trunk main pipelines, at the union reservoir sites, at panchayat reservoir sites, at overhead tank sites and at booster pumping station sites.
- (d) Operation and Maintenance of flow meter chambers at the tapping-point branches (as shown in Table 3, all flow meters are to be maintained by Package I) of the trunk main pipelines and at large booster pumping stations (as shown in Table 1, all flow meters to be maintained by Package I, except Sl.Nos. 2 & 5). Maintain spool pieces flange adaptors and other associated pipes, which are to be maintained by the contractor of Package I, at the chambers at the tapping point branches of the trunk main pipelines.
- (e) Maintaining buildings for housing the on-line re-chlorination equipment and any associated works including roads, drainage, landscaping, fencing at each union reservoir.

- (f) Maintaining buildings and any associated works including roads, drainage, landscaping, compound walls, fencing, building services etc at the sites of booster pumping stations and booster pumpsets, (in large pumping stations except the Common Booster Pumping Station near Palacode where dual power supplies from TNEB obtained, electrical, mechanical, instrumentation and building services equipment in these buildings.
- (g) Maintaining union reservoirs, panchayat reservoirs, overhead tanks and any associated works including roads, drainage, landscaping, compound fencing walls and building services work at each site;
- (h) Maintaining all necessary cable ducts for SCADA instruments of Package I. These cable ducts include, but not limited to, the cable ducts for the cables connecting the ultrasonic level sensors at union reservoirs/large booster pumping stations and the full bore electromagnetic flow meter, primary head pipes at tapping point from trunk mains / Large Booster pumping stations to their transmitters , The cable deducts for the cables to connect the ultra sonic level transmitters the full bore electromagnetic flow meter transmitters the level electrodes controllers , the pressure transmitters (equipment of Package I contract) to the Local Control Panels (to be maintained by the contractor of Package I);

Pumpsets for Booster Stations

Vertical Turbine pumpset installed at all the Booster Stations. Duties of Vertical Turbine pumps installed at different Booster stations are detailed in the Table 1.

Table 1.

Sl No	Locations for 24 Hours LPM	Demand for 24 Hrs	Discharges at 23 Pumping main	Total Head	Power required	No of Units
1	Common Booster Station I at Moongilpatti	31773	33154	118	1430	2+1
2	Common Booster Station II at Magendramangalam	31773	33154	108	1310	2+1
3	Booster station III at Kaduchettipatti to Tapping point I	26336	27481	95	950	2+1
4	Booster station III at Kaduchettipatti to Tapping point	4731	4937	109	200	2+1
5	Booster station IV at Ullukurukkai	26336	27481	130	1300	2+1
6	Booster Station at Kundumaranahalli	19402	20245	124	1020	2+1

Pumping Main

The pumping Main from Common Booster Station at Moongilpatti near Palacode to Hosur carries the water requirement of Package IV. The details of pipes in the pumping main are furnished in Table 2.

Table 2

Details of pipes in pumping main.

Reference Chianage From - To (m)	Length of Main (m)	Pipe Material	Diameter of pipe (m)	Thickness of pipe shell- mm Or Class of pipes
Pumping main from Common booster Station to MBR at Thinnur				
0-6930	6930	MS	850	8
6930-17010	10080	MS	850	7
17010-18810	1800	MS	850	8
18810-23010	4200	MS	850	7
23010-37380	14370	MS	750	7
37380-43350	5970	MS	750	8
43350-502220	6870	MS	750	7
50220-55155	4935	MS	700	6
55155-57420	2265	MS	700	7
57420-65280	7860	MS	700	6
65280-67170	1670	MS	600	6
Branch pumping main to BPS at Mathigiri				
0 – 760	760	DI	350	K7
Kaduchettipatti BPS to Rayakottai MBR				
0-2730	2730	DI	350	K9
2730-6510	3780	DI	350	K7

Tapping point from Pumping Main

There are five tapping from the pumping main to feed Panchayats in different Unions as furnished in Table 3.

Table 3 Details of Tappings from the Pumping main and Master Service Reservoirs.

TP No	Location	Quantity LPM	Size of Feeder Main (mm)	Feeding to	Name of Union	Type of chlorination Building	Size of flow control Valve (mm) Size of flow
I	BPS II At Kaduchettipatti	4731 -4937	350DI	Rayakottai Elevated MSR 6.0OLL capacity (by pumping)	Kelamangalam Union	Type C	200
IA	BPS II At Kaduchettipatti	705	200DI	Karimangalam Union	Karimangalam Union	Spot Chlorination	125
II	Jakkeri	6935 -7236		Jakkeri Elevated MSR 10.0OLL capacity (pumping) Elevated BPT 12.0OLL Capacity	Kelamangalam & Thali union To feed BSS by Gravity	Type C	300
III	Hosur- Mathigiri Junction	3808 -3973	350DI	capacity at Mathigiri GI MSR 6.0OLL	Hosur Union Panchayat & Thali Union	Type C	250
IV	Thinnur	1594 - 16272	600MS	Elevated MSR 20.0OLL capacity at Thinnur	Shoolagiri Union & Hosur union	Type C	400

Table 4 Details of Tappings from the Pumping main and Master Service Reservoirs.

Reference Chainage from – to (m)	Length of Main (m)	Pipe Materials	Diameter of pipe	Class of pipe
Feeder Main				
0-5369	5369	DI	150	K9
5369-11464	28590	DI	100	K9
Branch feeder				
0-1250	1250	HDPE	90 OD	PN8
0-3600	3600	HDPE	90 OD	PN8

Interface	Nature of Interface
Package I	The contractor of Package I has to maintain all the instruments at sites of the tapping points from the trunk mains, the level transmitters at the sites of union reservoirs, the flowmeters/pressure transmitters/level sensors at the large booster pumping stations and all the required Local Control Panels for SCADA System at the sites of Packages IV. The Contractor has to coordinate with the contractor of Package I for all the interface works that are to incur and allow the contractor of Package I to access the sites under the Contract for maintenance work. The Contractor shall supply all other signals that are required by the SCADA System from their equipment, in accordance with the Particular Specification
Package V	The Contractor has to maintain the civil structure, major electrical works and building services works for the Common Booster Pumping Station near Palacode and allowed the contractor of Package IV to access this site to carry out maintenance work

1.2 Operation and Maintenance of the above works for a period of 48 months

1.3 The successful bidder has to Operate and Maintain the above works for a period of 48 months

1.4 In these bidding documents, the terms bid and tender and their derivatives (bidder/tenderer, bid/tender, bidding/tendering etc) are synonymous.

1.5 Downloading the documents from web site.

If the documents are downloaded from the web site www.tenders.tn.gov.in & www.twadboard.tn.gov.in by the bidder and offer their tender duly filled and signed along with all required documents to the tender inviting authority as notified in the Invitation for Bids subject to the following:

a) The bidder shall furnish a certificate to the effect that no correction/ alteration on the bid document as found in the web site was made by him and he shall abide by all the terms, conditions and specifications contained in the bid document.

b) No cost towards bid document shall be required to be paid by the bidders who are using the forms downloaded from the designated website.

The bidder shall submit the tender to the tender inviting authority as prescribed in the "Invitation of Bids".

1.6 The Bid Document can be purchased from the Executive Engineer, TWAD Board, Project Maintenance Division, Denkanikottai Road, Dinnur, Hosur – 635 109 by remitting the required cost of Bid Document as stipulated in "Invitation of Bids".

2. Method of Bidding

2.1 If the bid is made by an individual, the bid documents shall be signed by the individual with his full name and current address.

2.2 If the bid is made by a proprietary concern, the bid documents shall be signed by the proprietor with his full name as well as the name of the firm and full address. In the case of an authorised person holding power of attorney signing the bid documents, a certified copy of the registered power of attorney should accompany the bid documents. The signature of the proprietor shall be attested by a notary public and enclosed as documentary evidence.

2.3 If the bid is made by a partnership firm, the bid documents shall be signed by all the partners of the firm along with their full names and current address with specific mention on the registered address of the firm. In the case of a partner holding power of attorney signing the bid documents, a certified copy of the registered power of attorney should accompany the bid. It is also mandatory to furnish a certified copy of the registered partnership deed, current address of the partners, registered address of the firm along with the bid. The signature of all the partners / power of attorney shall be attested by a notary public and enclosed as documentary evidence.

2.4 If the bid is made by a limited company or a limited corporation, it shall be signed by a duly authorised person holding power of attorney for signing the bid documents in which case a certified copy of the registered power of attorney shall accompany the bid. Such limited company or corporation may be required to enclose satisfactory evidence of its existence along with the bid.

2.5 The bids from the contractors / firms shall be accompanied by an attested copy of the Income Tax Clearance Certificate relating to the year prior to the previous financial year (with reference to the year in which the bid is opened) and GST Registration Certificate.

2.6 If the bid made by a limited company or corporation, it shall be signed by a duly authorized person holding power of attorney for signing the bid documents in which case a certified copy of the registered Power of attorney along with still in force certificate shall accompany the bid.

3. Modification or more than one tender

3.1 A Tenderer may submit a modified Tender before the last date for receipt of Tender. Provided that where more than one Tender is submitted by the same Tenderer, the **lowest eligible financial tender** shall be considered for evaluation.

4. Cost of Bidding

4.1 The bidder shall bear all the costs associated with the preparation and submission of his bid. The Employer will in no case be responsible for those costs, regardless of the conduct or the outcome of the bidding process.

5. Site Visit.

5.1 The bidder, at the Bidder's own responsibility and risk is advised to visit and examine the site of works and its surroundings and obtain on his own all information that may be necessary for preparing the bid and entering into contract for the operation and maintenance of the works. The costs of visiting the site and its surroundings shall be at the bidder's expense.

5.2 The bidder and any of his personnel or agents will be granted permission by the Employer to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the bidder, his personnel or agents, will release and indemnify the Employer and his personnel or agents from and against all liability in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any other loss, damage, costs and expenses incurred as a result of the inspection.

5.3 The bidder should carefully inspect the site to assess the topography of the area where the pipe line and all the structures that are to be maintained as in the scope of the contract, to have an idea of the extent of area.

5.4 The Engineer will arrange a site visit for the bidders based on their request to enable the bidders to have an understanding of the site conditions and will be able to clarify those associated issues relating to the site conditions in the pre-bid meeting. The site visit will be commenced from the premises of the office of the Executive Engineer, TWAD Board, Project Maintenance Division, Denikanikottai Road, Dinnur, Hosur – 635 109.. The bidder has to make his own arrangements for the site visit.

B. Eligibility / Qualification Criteria

6. Eligible Bidders

- 6.1 The Invitation to Bid is open to any bidder meeting the following requirements:
- 6.2 A bidder shall not be associated directly or indirectly with the firm engaged by the Board for providing consultancy services for the preparation and supervision of the works and any of its affiliates.
- 6.3 Bidders shall provide such evidence of their continued eligibility satisfactory to the Employer as the Employer shall reasonably request.
- 6.4 Joint Venture of firms for bidding are not allowed.
- 6.5 The contractors under Defects Liability Period (DLP) of the Operation & Maintenance of HWS & FM Project is allowed to bid under the condition that "while handing over of this package works, any repairs listed to be carried out are to be rectified by the original contractor at his own cost. No payment will be made for the rectification works including all cost of spares and other related items required. The defects are to be rectified within the time frame mentioned in the "Special conditions of Contract" and on default, Liquidated damages and penalty will be imposed as mentioned in the "Special conditions of Contract".

7. Qualification of the Bidder

7.1 General

- 7.1.1 Bidders shall provide the following as part of their bid in the prescribed formats.
- 7.1.2 A registered Power of Attorney authorising the signatory of the bid to commit on behalf of the bidder should be enclosed.
- 7.1.3 Proof of Registration of the firm/company under the Companies Act should be enclosed.
- 7.1.4 Total monetary value of civil engineering works (water supply scheme completed / maintained water supply scheme works) performed during each of the last three financial years should be furnished in Annexure-I.
- 7.1.5 Average Annual construction turnover in Civil Engineering works (water supply scheme completed / maintained water supply scheme works) for the last three financial years (Audited balance sheet for the last three financial years) should be enclosed. Annual turnover (in the form of Annexure II) for the last three financial years should be certified by a registered Chartered Accountant and the certificate should be affixed with the seal of the office of the Chartered Accountant with the registration number legibly in Annexure – II.
The contract receipt / contract income of the audit profit and loss account or audited income and expenditure account shall only be considered for the purpose of annual Turnover in Civil engineering works (water supply scheme completed / maintained water supply scheme works) for the last three financial years.
- 7.1.6 Experience in works of similar nature and magnitude within a period of 5 years, commitment of works on hand and works for which bid already submitted should be furnished in the Annexure – III, IV and V respectively.
- 7.1.7 List of equipments available with the bidder for deployment in the project should be furnished in Annexure-VI.
- 7.1.8 Technical, administrative and managerial personnel proposed to be employed for key site management in this work with their qualification details should be furnished in Annexure – VII
- 7.1.9 Evidence of access to lines of credit and availability of other financial resources, Credit line certificates from financial institutions should be enclosed in Annexure – VIII

- 7.1.10 Litigation details of the bidder with the details of the parties concerned and the amount involved should be furnished in Annexure – IX.
- 7.1.11 The bidder should declare clearly whether the bidder has been black listed, banned or debarred in Central Government Department / Under taking / Organisation or any State / Union Territory / Department Undertaking / organisation in Annexure – X.
- 7.1.12 Subletting of works are not allowed.
- 7.1.13 Income Tax Clearance Certificate in currency as proof of having remitted the income tax for the year prior to the previous financial year (with reference to the year in which the bid is opened)
- 7.1.14 GST Certificate as proof of having remitted the GST. In the case of, not liable to the Commercial Tax Department, a valid certificate issued by the competent authority to this effect.
GST is Exempted since the value of materials involved is less than 25% , as per Government of India Notification No 2 / 2018 – Central Tax (Rate)/ New Delhi, 25th January 2018 and as amended from time to time.
- 7.1.15 List of Bank guarantee if any in other contracts in any other Department/ Corporation/ any concern.

CONDITIONS TO BE SATISFIED:

7.2 Performance Eligibility:

(a) Financial & Physical capacity:

Sl. No	Description	Criteria
	Financial Turnover & Cash flow.	
a	Minimum Annual Turn Over in any one of the last Three financial years (2016-17, 2017-18 & 2018-19)	Rs 28.30 Crore
b	Minimum Cash Flow: Minimum Cash flow required in Rs... in Crore	Rs 1.77 Crore
c	Financial Turn Over in Similar Works : The bidder should have Satisfactorily - Completed Water Supply Scheme or Maintained Water Supply Scheme of value not less than Rs.28.30 Crores in the last five financial years (2014-15 to 2018-19) either a) in single agreement or b) in two agreements	Rs 28.30 Crore Rs 42.45 Crore
d	Bid capacity The available Bid capacity	Rs 28.30 Crore
	Physical Work Experience in the Five financial years (2014-15 to 2018-19)	
e	MS/DI/CI Pipeline in Kilometre (KM): Minimum Aggregate experience of pipeline in KM - MS/DI/CI Pipe - Should have supplied, laid, jointed, tested and satisfactorily completed or maintained for a continuous period of at least 1 year in the last five years	80 Km

f	PVC/HDPE Pipeline in Kilo Metre (KM) Minimum aggregate experience of Pipeline in Kilometre (KM) - PVC/HDPE Pipe- should have Supplied, laid, jointed, tested and satisfactorily completed or maintained for a continuous period of at least 1 year in the last five years	243 Km
g	RCC Water Retaining Structures in Lakh Litres (LL): Minimum aggregate experience of RCC Water retaining structures in Lake Litres (LL) -Completed and tested for water tightness or maintained for a continuous period of one year in the last five years	(a) 43.00 LL (b) Out of which Minimum 1 number of 5LL of sump / OHT/MBR/BPT
h	Pumping Machinery in Kilo Watt (KW): Minimum Aggregate capacity of pumping machinery installed (KW)-erected, tested and successfully completed or maintained for a continuous period of at least 1 year in the last 5 years.	(a) 998KW (b)Out of which Minimum one number of 112KW (150 HP) Vertical Turbine / Centrifugal pumpset
i	Transformer Sub station: Minimum experience of transformer sub station erected, tested and completed or maintained for a continuous period of at least one year in the last 5 years - 1 No of 250 KVA of Transformer Sub station	One No of 250 KVA of transformer substation

Note: in addition to the above requirements the following criteria is also to be satisfied.

(b) Bid capacity:

The available bid capacity should be more than the average annual bid value.

Assessed Available Bid capacity = **(A*N*1.5-B)**, where

A= Maximum value of Civil Engineering works executed or Maintained in any one year during the last three financial years (updated to current price level @ 6% per annum) taking into account the completed as well as works in progress.

N= Number of years prescribed for completion of the works for which bids are invited i.e., **4 Years**

B= Value of existing commitments and ongoing works to be completed during the next **4 Years** (updated to current price level)

- 7.3 The Goods offered should be of acceptable quality and standard. Unless otherwise stated in the Contract, the Accepted Contract Amount covers the entire Contractor's works under the Contract (including those under Provisional Sums, if any) and all things necessary for the operation and maintenance of the Works. The Accepted Contract Amount shall cover the completion of operation and maintenance of the Works.

Note:

- i. The performance eligibility shall pertain to the similar works executed by the tenderer in any of the Central/State Government Departments/Quasi Government Organizations and Government Undertakings/a Private Organization. The performance experience for Central/State Government Department/Undertaking/ Quasi Government Organization should be supported by performance certificates issued by the concerned organization by an officer not less than the rank of Executive Engineer. The experience certificates issued by an officer below the rank of Executive Engineer or on behalf of Executive Engineer will not be considered.
- ii. In case of experience of a Private Organization, the following criteria should be satisfied:
 - a) The Photographs of the works undertaken for the Private Organization should be enclosed as a proof.

- b) The certificate of the work done for the Organization be enclosed by a Senior Official who should be at least of the rank of the General Manager or Equivalent.
 - c) The above certificate should be countersigned by a Government Department Engineer at least of the rank of Assistant Executive Engineer and should also be notarised.
- iii. For the experience certificates furnished by the bidders which are obtained from the Departments outside the State, clarification will be obtained by the Employer from the concerned Department as to whether the details furnished in the certificates are genuine, before finalization of evaluation
- iv. In case if a contractor/firm worked as sub contractor previously, then their experience in those particular components of work will be considered only if their sub contract/sublet work was properly approved by the User Department. A certified copy to that effect from Engineer in charge (not below the rank of Executive Engineer) must be produced for arriving at the performance eligibility for the particular work.

7.4. Disqualification:

Even though the bidders meet the above qualifying criteria, they are subject to be disqualified at any point of time if they have

- i) made misleading or false representation in the form statements and attachments submitted and/or
- ii) Record of poor performance during the last 5 years as on the date of application such as abandoning the work, rescinding of contract for which the reasons are attributable to the non performance of the Contractor, inordinate delays in completion, consistent history of litigation awarded against the applicant or any of its constituents or financial failure due to bankruptcy etc.
- iii) been debarred / blacklisted as on the date of application by any Central/State Government Department/Undertaking/Organization and their bid will not be taken up for evaluation.
- iv) been referred to CDR and NCLT in the last 10 years and an appropriate certificate in this regard is to be furnished by self certification / banker certificate.
- v) If the (bidder/ company/ firm/ proprietor in name of/ wife/ siblings/ husband/ son/ daughter in law/daughters/ son in law) close blood relative are blacklisted by the Employer / Central /State Government Department/undertaking/organization/ and their bid will not be taken up for consideration.
- vi) If the bidder fails to disclose (v) details and later came to understand by the employer severe Penalty will be imposed irrespective of amount and blacklisted by the employer.

SPECIAL ATTENTION TO BIDDERS.

I. Copies of experience certificates obtained from the Officer not below the Rank of **Executive Engineer** of respective user departments must be attested by Notary Public and produced.

II. These Certificates should contain the following details

- 1) Name of Scheme (Name of the State also to be specified) :
- 2) Contract No. and date :
- 3) Value of Contract : Rs.
- 4) Name of Contractor with full address :
- 5) Period of completion as specified in the Contract :
- 6) Date of commencement of work :
- 7) Actual date of completion/ commissioning :
- 8) Reason for the delay if any :
- 9) Full details of components executed under this contract :

10) Performance of the work should contain the following details:-

Component	Performance
i) In case of MS/DI/CI Pipeline in Kilo Meter (Type of each pipe with dia, length, Pressure must be given)	Whether completed and commissioned Satisfactorily or Maintained Satisfactorily?
ii) In case of PVC/HDPE Pipeline in Kilo Meter (Type of each pipe with dia, length, Pressure must be given)	: Whether completed and commissioned Satisfactorily or Maintained Satisfactorily?
iii) In case RCC water Retaining Structure (with capacity of Lakh Litre clearly mentioned)	: Whether completed and commissioned Satisfactorily or Maintained Satisfactorily?
iv) In case of pumping Machinery installed (The capacity of KW must be given)	: Whether constructed and commissioned Satisfactorily or Maintained Satisfactorily?
v) In case of Transformer Sub station installed (The capacity of KVA must be given)	: Whether completed and commissioned Satisfactorily or Maintained Satisfactorily?

Signature of Officer with Seal

C. BID DOCUMENTS

8. Contents of Bid Documents

- 8.1 The Bid Documents – (Volume – I) will comprise the following documents & addenda issued in accordance with clause 10 below:
- Invitation for Bids
 - Instruction to Bidders
 - Eligibility/Qualification Criteria
 - Forms of Bid
 - Programme Schedule and Financial Milestone
 - Payment Schedule
 - General Conditions of the Contract
 - Special Conditions of the Contract
 - Estimated List of Spares (Mechanical, Electrical, ICA and Miscellaneous)
 - Model Formats
- 8.2 General and Particular Specification- Volume 2
- 8.3. Mechanical, Electrical, ICA Equipments Spares Specification- Volume 3
- 8.4 Civil Specification- Volume 4
- 8.5 List of Equipments – Volume 5
- 8.6 Drawings of structures and Installations – Volume 6
- 8.7 O&M Manual – Volume 7
- 8.8 Bill of Quantities – Volume 8

9. Clarification of Bid Documents.

- 9.1 A prospective bidder requiring any clarification may raise the same at the time of Pre-bid meeting in writing or by cable (hereinafter the term cable is deemed to include telex and facsimile) at the employer's address indicated in the "Invitation of bids". The employer will respond to any clarification sought for.

10. Amendment to Bid Documents

- 10.1 At any time prior to 48 hours to the deadline for submission of bids, the Employer may amend the bid documents by issuing Addenda.
- 10.2 Any Addendum thus issued shall be part of the bid documents and shall be communicated in writing or by cable to all purchasers of the bid documents. Prospective bidders shall promptly acknowledge the receipt of each addendum by cable to the Employer.
- 10.3 To give prospective bidders reasonable time in which to take an addendum into account in preparing their bids, the Employer shall extend as necessary the deadline for submission of bids, in accordance with Clause 21.2 of "Submission of Bids".

D. PREPARATION OF BIDS

11. Language of the Bid

- 11.1 The bid and all correspondences and supporting documents related to the bid exchanged by the bidder and the Employer shall be written in English. Supporting documents and printed literature furnished by the bidder may be in other language provided they are accompanied by an accurate translation of the relevant passages in either English or Tamil language, in which case, for purpose of interpretation of the bid, the translation shall prevail.

12. Documents comprising the Bid

- 12.1 The bid submitted by the bidder shall comprise the following:

Cover – 1 (Technical Bid)

- i. The Bid Documents duly filled and signed – Volume I

ii. List of Annexures

- a) Performance of the Bidder showing total monetary value of Civil Engineering works (completed or maintained water supply schemes) for the last three years (2016-17, 2017-18 & 2018-19) (7.1.4) (Annexure-I)
- b) Average Annual Construction Turn over Civil Engineering works (completed or maintained water supply schemes) for the last three financial years (7.1.5) (Annexure-II)
- c) Experience in works of similar nature of Magnitude within a period of last 5 financial years (2014-15, 2015-16, 2016-17, 2017-18 & 2018-19) (7.1.6) (Annexure-III)
- d) Commitment of works on hand (7.1.6) (Annexure-IV)
- e) Works for which Bids are already submitted (7.1.6) (Annexure-V)
- f) List of Equipments available with bidder (7.1.7) (Annexure-VI)
- g) Qualification/Experience of key personnel proposed for technical and administrative functions under this contract (7.1.8) (Annexure-VII)
- h) Sample Format for evidence of access to or availability of credit facilities (7.1.9) (Annexure-VIII)
- i) Details of Litigation if any (7.1.10) (Annexure-IX)
- j) Declaration by the bidder pertaining to blacklisting/debarment etc., (7.1.11) (Annexure-X)
- k) Format for O&M staff required for Operating Methodology (Annexure-XI)
- l) Affidavit as an undertaking given by the Contractor should be certified by the Notary duly stamped on a Notaries Stamp (Annexure-XII)

iii. List of Certificates.

- a) Signature of the Proprietor or Proprietors attested by the Notary Public - (2.2)
- b) Signature of all the Partners/Power of Attorney attested by the Notary Public – (2.3)
- c) Registration of the firm, signature of the authorised person attested by the Notary Public – (2.4)
- d) A copy of the listed Power of Attorney authorising the signatory of the bidder – (7.1.2)

- e) Proof of Registration of firm/Company - (7.1.3)
- f) Audited Balance Sheets – (7.1.5)
- g) Credit line Certificate from Financial Institutions – (7.1.9) - Annexure-VIII
- h) Income Tax Clearance Certificate – (7.1.13)
- i) GST Registration Certificate – (7.1.14)
- j) Certificate of performance issued by not less than the rank of Executive Engineer / Responsible person of the private organization – (7.3)

Copy of Certificates furnished by the firm/contractor should be attested by the notary public.

General and Particular Specification- Volume 2

Mechanical, Electrical, ICA Equipments Spares Specification- Volume 3

Civil Specification- Volume 4

List of Equipments – Volume 5

Drawings of structures and Installations – Volume 6

O&M Manual – Volume 7

Bid Security

Any other material required to be completed and submitted by the bidders in accordance with these instructions

Cover – II (Price Bid) – Volume - 8

- 12.2 Priced Bill of Quantity duly signed.
- 12.3 The Bid should be submitted only in the original documents as issued by the Employer or as downloaded from the website. No alteration or correction should be made under any circumstances in the Bid Documents issued by the Employer (or) as downloaded from the website.
- 12.4 Conditional tenders are liable for rejection.

13. Bid Prices

- 13.1 The contract shall be for the whole works as described in sub clause (1.1), based on the priced bill of quantities submitted by the bidder.
- 13.2 The bidder shall fill in rates and prices and line item total (both in figures and words) for all items of works described in the Bill of quantities along with total bid price (both in figures and words). Items for which no rate or price is entered by the bidder will not be paid for by the employer when executed and shall be deemed covered by the other rates and prices in the bill of quantities. Corrections, if any, shall be made by crossing out and initialling.
- 13.3 Deleted
- 13.4 The rates and prices quoted by the bidder or firm till the completion of the contract period and price adjustments are not allowed.

14. Currencies of Bid and Payment

- 14.1 The unit rates and the prices shall be quoted by the bidder entirely in Indian Rupees.

15. Bid Validity

- 15.1 Bids shall remain valid for a period not less than 120 days (**one hundred and twenty days**) from the date of opening of Technical Bid. A bid valid for a shorter period shall be rejected by the Employer as non responsive.

- 15.2 In exceptional circumstances, prior to expiry of the original time limit, the Employer may request the bidders to extend the period of validity for a specific additional period. The request and the bidder's response shall be made in writing or by cable. A bidder may refuse the request without forfeiting his bid security. A bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend his bid security for the period of extension.

16. Bid Security

16.1 The bidder shall furnish, as part of his bid, as bid security of **Rs.21.30 Lakhs (Rupees Twenty one lakhs and thirty thousand only)** duly pledged in favour of the Executive Engineer, TWAD Board, Project Maintenance Division, Hosur in any one of the following forms

- Deposit call receipt / Fixed deposit receipt/ Bank Guarantee issued by Nationalised Bank / Scheduled Bank located in India or a Reputable Bank located Abroad, National savings certificate/Post office Savings Bank deposits.
- Unconditional Bank Guarantee in the prescribed format for the bid security issued by a Nationalised Bank/Scheduled Bank located in India or a Reputable Bank located Abroad & valid for 45 days after the end of the validity period of the bid.
- FDR and deposits at call receipts should contain lien certificate issued by the Bank for encashment by department. The FDR furnished by the firm should also bear the signature of the authorized signatory on a revenue stamp at the back of the FDR.

- 16.2.1 Any bid not accompanied by bid security in the stipulated form shall be rejected by the Employer as non responsive.

16.2.2 **The Bid security (Bank Guarantee) issued by Bank will be confirmed from the concerned Regional office.**

- 16.3 The bid security of the unsuccessful bidders will be returned as promptly as possible, but not later than 30 days either after the expiration of the period of bid validity or after finalization of the bid whichever is later.

- 16.4 The bid security of the successful bidder will be returned after the bidder has furnished the required performance security and signed the agreement. No interest is payable on Bid security by the Employer.

- 16.5 The bid security shall be forfeited

- In the case of bidder withdrawing or modifying his bid during the period of bid validity
- If the bidder does not accept the corrections of the bid price, pursuant to clause 28 of Bid Opening and Evaluation
- In the case of a successful bidder, failing to furnish the performance security in the specified form within the stipulated time
- In the case of a successful bidder, failing to enter into agreement within the stipulated time
- In the case of the bidder severing the conditions, after intimation of the acceptance of the bid.

17. Compliance to Technical Design and Specification - Deleted.

18. Format and Signing of Bid

- 18.1 The bid document submitted to the Employer shall be typed or written in indelible ink and shall be signed by a person duly authorised to sign on behalf of the bidder in accordance with "Instructions to Bidders". All pages of the bid and where entries or corrections have been made shall be initialled by the person signing the bid.

- 18.2 The bid shall contain no alteration or additions, except those to comply with the instructions issued by the Employer and wherever necessary to correct errors made by the bidder, in which case such corrections shall be initialled by the person signing the bid.

- 18.3 The technical and price bids (BOQ) as issued by the Employer should be submitted duly signed at the bottom of each page, failing which the bids will be summarily rejected.

19. Pre Bid Meeting:

- 19.1 The bidder or his authorised representative, who are desirous, may attend the pre bid meeting which will take place at **Office of the Chief Engineer, TWAD Board, No. 8, 1st East Main Road, Gandhi Nagar, Vellore – 632006** on **11.02.2020 at 11.30AM**
- 19.2 The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
- 19.3 The bidder is requested, as far as possible, to submit the questions in writing or by cable, to reach the Employer not later than one week before the meeting. It may not be practicable at the meeting to answer questions received late.
- 19.4 Minutes of the meeting, including the text of the questions (without Identifying the source of enquiry) and the responses given together with any responses prepared after the meeting, will be transmitted without delay to all purchasers of the bidding documents. Any modification of the bidding documents listed in clause 23.1 of "Submission of Bids", which may become necessary as a result of the pre bid meeting shall be made by the Employer exclusively through the issue of an addendum pursuant to clause 10 of the Bid Document and not through the minutes of the pre bid meeting. Then will be hosted on www.tenders.tn.gov.in and www.twadboard.tn.gov.in
- 19.5 Attendance at the pre bid meeting is not mandatory and non attendance will not be a cause for disqualification of the bidder.

E. SUBMISSION OF BIDS

20. Sealing and Marking of Bids

- 20.1 Two cover system shall be adopted for submission of bids.
- 20.2 The first cover shall contain the technical bid documents, supporting material relating to the eligibility criteria, Bid Security in the proper form and other connected Certificates as specified in clause 12.1.
- 20.3 No indication either direct or indirect, implicit or explicit regarding the rates and prices should be made in the technical bid or any other documents submitted in the first cover.
- 20.4 The second Cover shall contain the Price Bid alone.
- 20.5 The bids should be submitted in the original bid documents as issued by the Employer.
- 20.6 The bid documents, under no circumstances, are transferable.
- 20.7 The first cover containing the Technical Bid and Bid Security and the second cover containing the Price Bid, should be pasted properly, sealed and superscribed indicating clearly the name of work and marking specifically as under:

Cover I - Technical Bid

Cover II - Price Bid

Both the covers containing the Technical bid and Price Bid should be placed in a common envelope, pasted, sealed and super-scribed properly.

20.8 Format and signing of Tender

- 20.8.1 The Tenderer shall submit one original and one copy (hard) and one soft copy of Technical Bids comprising of Tender as described in the Instruction to Tenderers, bound in a format as stipulated and clearly marked as "ORIGINAL" and "COPY" as appropriate and the bidder shall affix his signature in all pages of his submittal. In the event of discrepancy, original will prevail.
- 20.8.2 All bidders will be provided with an electronic copy of the schedule of prices. Cells that contain permanent information and are not to be changed by the Bidder will be protected.
- 20.8.3 Cells into which the bidder can enter rates and Amount (where these may vary), will be left unprotected. However, the Employer will not enter any formulae in the spread sheets.
- 20.8.4 The Bidder is entirely responsible to ensure that the calculations presented in the Schedule of Prices are correct, and that the Bidders offer is complete in all respects. The Price Bid completed in computerized printout, adopting the format of the Bid document in total and shall be signed by a person or persons duly authorized to sign on behalf of the Bidder.
- 20.8.5 **The tenderer shall submit the Price Bid in duplicate one in hard copy and another in soft copy. The BOQ in the excel format is uploaded.** The Bidder will need to submit the completed Schedule of Prices together with the bound copy of the Price Proposal which has been issued by the Employer along with the separate Priced Schedule of Prices, and to affix his signature on all pages of his submittal. The Bidder shall give an undertaking that that the content of the CD and the content of hard copies are identical. In the case of discrepancy between the soft copy and hard copy (print out) furnished by the bidder, the hard copy (print out) will prevail. If there is discrepancy between the hard/soft copy furnished by the bidder and the hard copy issued by the Employer, the hard copy issued by the Employer will prevail.
- 20.8.6 The Tender shall contain no alternations, omissions or additions, except those to comply with instructions issued by the Employer, or as necessary to correct errors made by the Bidder, in which case such corrections shall be initialled by the person or persons signing the Tender.
- 20.9 All the envelopes shall be addressed to the Employer "THE CHIEF ENGINEER, TWAD BOARD, VELLORE – 632 006" and bear the following identification

Bid for
Operation and Maintenance of Hogenakkal Water supply and Fluorosis Mitigation Project in Dharmapuri and Krishnagiri Districts for the period of 48 months (From 01.04.2020 to 31.03.2024) – 3rd call - Package IV

INVITATION FOR BID No.23 /Hog Pkg I to V /3rd call /DO/CE/ VLR / 2020 / Dated:23.01.2020.

Do Not Open Before	27.02.2020 at 03.30 PM	(Time and date of bid opening as per Clause 24 of Bid Opening and Evaluation)
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and should be submitted to the following Address:

**The Chief Engineer,
 TWAD Board,
 NO. 8, 1st East Main Road,
 Gandhi Nagar,
 Vellore – 632 006.**

- 20.10 In addition to the Identification required in sub clause above, the envelope shall indicate the name and address of the bidder to enable the bid to be returned in case it is declared late, pursuant to Clause 22 of "Submission of Bids".
- 20.11 If the envelope is not sealed and marked as above, the Employer will assume no responsibility for the misplacement or premature opening of the bid.

21. Deadline for Submission of the Bids

- 21.1 Bids must be received by the Employer at the address specified in clause 20.9 above not later than 3.00 P. M on 27.02.2020. In the event of the specified date for the submission of bids declared a holiday for the Employer, the bids will be received upto the appointed time on the next working day.
- 21.2 The Employer may extend the deadline for the submission of bids by issuing amendment in accordance with clause-10 of Bid Documents in which case all rights and obligations of the Employer and the bidders previously subject to the original deadline will then be subject to the new deadline.

22. Late Bids

- 22.1 All bids received by the Employer after the deadline prescribed in clause 21 of "Submission of Bid" will be returned unopened to the bidder.

23. Modification and Substitution of Bids

- 23.1 No Tenderer shall be allowed to withdraw the Tenders after submitting the Tender. The bidder may modify, substitute his bid after submission, provided that written notice of the modification / substitution is received by the Employer prior to the deadline for submission of bid.
- 23.2 The bidder's modification/substitution notice shall be prepared, sealed, marked and delivered in accordance with provisions of clause 20 and 21 of "Submission of Bid", with the envelope additionally marked "MODIFICATION" / "SUBSTITUTION" as appropriate.
 The modification / substitution for price bid cover should be superscribed as PRICE "MODIFICATION" / "SUBSTITUTION" COVER.
- 23.3 No bid shall be modified or substituted after the deadline for submission of bids.
- 23.4 Modification and substitution of a bid between the deadline for submission of bids and the expiration of the original period of validity specified in clause 15.1 of "Preparation of Bids" or as

amended pursuant to clause 15.2 of "Preparation of Bids" may result in the forfeiture of the Bid Security pursuant to Clause 16 of "Preparation of Bids".

F. BID OPENING AND EVALUATION

24. Bid Opening

- 24.1 The Employer will open all the bids received (except those received late) including modifications made pursuant to clause 23 of "Submission of Bids", in the presence of the bidders or their representatives who choose to attend on the date at the time in the address specified in clause 20 of "Submission of Bids". (In the event of specified date of bid opening being declared a holiday for the Employer, the bids will be opened at the appointed time and location on the next working day).
- 24.2 Envelopes marked "substitution" and "modification" shall be opened and read out first. Envelopes super scribed as "MODIFICATION" / "SUBSTITUTION" to price bid will be opened at the time of opening of the price bid.
- 24.3 The Bidders' names, the Bid prices, the total amount of each Bid, any discounts, bid modification, substitution, the presence or absence of Bid Security and such other details as the Employer may consider appropriate, will be announced by the Employer at the opening. Bids (and modifications) sent pursuant to clause 22 of "Submission of Bids" that are not opened and read out at the bid opening will not be considered for further evaluation regardless of the circumstances.

25. Process to be Confidential

- 25.1 Information relating to the examination, clarification, evaluation and comparison of bids and recommendations for the award of a contract shall not be disclosed to bidders or any other person not officially concerned with such process until the award to the successful Bidder has been announced. Any effort by a bidder to influence the Employer's processing of Bids or award decisions may result in the rejection of his bid.

26. Clarification of Bids.

- 26.1 To assist in the examination, evaluation and comparison of bids, the Employer may, at his discretion, ask any Bidder for clarification of his bid, including breakdown of unit rates. The request for clarification and the response shall be in writing or by cable, but no change in the price or substance of the Bid shall be sought, offered, or permitted except as required to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the Bids in accordance with Clause 28 of "Bid Opening and Evaluation".

27. Examination of Bids and Determination of Responsiveness

- 27.1 Prior to detailed evaluation of Bids, the Employer will determine whether each Bid
- (a) meets the eligibility criteria set out in clause (7) ;
 - (b) has been properly signed,
 - (c) is accompanied by the required securities and
 - (d) is substantially responsive to the requirements of the Bid Documents,
- 27.2 A substantially responsive Bid is one which conforms to all the terms, conditions and specifications of the Bid Documents, without material deviation or reservation. A material deviation or reservation is one (a) which affects in any substantial way the scope, quality or performance of the works. (b) which limits in any substantial way, inconsistent with the Bid Documents, the Employer's rights to the Bidder's obligations under the contract, or (c) whose rectification would affect unfairly the competitive position of other bidders presenting substantially responsive Bids.
- 27.3 If a Bid is not substantially responsive, it will be rejected by the Employer, and may not subsequently be made responsive by correction or withdrawal of the non conforming deviation or reservation. The decision of the Employer on the issue whether the Bid is responsive or not will

be final and binding on the bidders. The Employer is not bound to disclose the reason in case a bid is determined by him as non responsive.

28. Correction of Errors

- 28.1 Bids determined to be substantially responsive will be checked by the Employer for any arithmetic error. Errors will be corrected by the Employer as follows:
- If any variation in the rates in words and figures, the lesser of the two will only be taken into consideration.
 - Where there is a discrepancy between the unit rate and line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern.
 - Where there is an arithmetical discrepancy in the page total as well as grand total, the corrected total by the Employer will govern
- 28.2 The amount stated in the Bid will be adjusted by the Employer in accordance with the above procedure for the correction of errors and shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount of the Bid, his bid will be rejected and his bid security may be forfeited in accordance with Clause 16.5 of "Preparation of Bids".

29. Evaluation and Comparison of Bids

- 29.1 The Employer will evaluate and compare only the Bids determined to be substantially responsive in accordance with Clause 27 of "Bid Opening and Evaluation".
- 29.2 In evaluating the Bids, the Employer will determine for each Bid the evaluated Bid Price by adjusting the Bid price as follows:
- making any correction for errors pursuant to Clause 28 of "Bid Opening and Evaluation" **or**
 - making appropriate adjustments to reflect discounts or other price modifications offered in accordance with Clause 23 of "Submission of Bids".
- 29.3 The Employer reserves the right to accept or reject any variation/deviation.
- 29.4 If the Bid of a successful Bidder is seriously unbalanced in relation to the Engineer's estimate of the cost of work to be performed under the contract, the Employer may require the Bidder to produce detailed price analysis for any or all items of the Bill of Quantities to demonstrate the internal consistency of those prices with the construction methods and schedule proposed.

After evaluation of the price analysis, the Employer may require that the amount of the Performance Security set forth in Clause 34 of "Award of Contract" be increased at the expense of the successful Bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract.

G. AWARD OF CONTRACT

30. Award Criteria.

- 30.1 Subject to Clause 29 of "Bid Opening and Evaluation", the Employer will award the contract to the Bidder, whose Bid has been determined to be substantially responsive to the Bid Documents and who has offered the lowest evaluated Bid Price, provided that such Bidder has been determined to be (a) eligible in accordance with the provision of clause 6 of "Eligibility/Qualification Criteria" and (b) qualified in accordance with the provisions of Clause 7 of "Eligibility/Qualification Criteria".

31. Employer's Right to Accept any Bid and to Reject any or all Bids

- 31.1 The Employer reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids, at any time prior to award of contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds for the Employer's action.

32. Notification of Award

- 32.1 The Bidder whose Bid has been accepted will be notified of the award by the Employer prior to expiration of the Bid validity period by cable, telex or facsimile confirmed by registered letter. This letter (hereinafter and in the Conditions of Contract called the "Letter of Acceptance"), will state the sum that the Employer will pay to the contractor in consideration of the execution and completion of Operation and Maintenance of works by the Contractor as prescribed by the Contract (hereinafter and in the conditions of Contract called the "Contract Price").
- 32.2 The notification of award will constitute the formation of the Contract.

33. Registration in TWAD Board

- 33.1 The successful contractor/firm, if not a registered contractor in Tamil Nadu Water Supply and Drainage Board, he / they shall get himself / themselves registered in TWAD Board.

34. Performance Security

- 34.1 A) Within 28 days from the date of the Letter of Acceptance, the successful bidder shall deliver to the Employer a Performance Security for an amount **equivalent to 5% of contract value**
- i) in the form of National Savings Certificate/Post Office Savings Deposit account purchased within the State of Tamil Nadu and pledged in favour of the Executive Engineer, TWAD Board, Project Maintenance Division, Hosur-635 109 **or**
- ii) Unconditional and irrevocable bank guarantee issued by any one of the branches of "Nationalised Bank or scheduled Bank" within the State of Tamilnadu, provided they are in Prescribed format in favour of the Executive Engineer, TWAD Board, Project Maintenance Division, Hosur-635 109.
- 34.2 The bidder along with the performance security, shall deliver a non judicial stamp paper for Rs.100/- (Rupees One Hundred only) at his cost for executing the agreement.
- 34.3 **The Bid security (Bank Guarantee) issued by Bank will be confirmed from the concerned Regional office.**
- ### **35. Signing of Agreement**
- 35.1 The Employer on receipt of the performance security and non-judicial stamp paper, will furnish to the bidder the Agreement in the form prescribed, incorporating all terms and conditions between the Employer and the successful bidder.

- 35.2 The Bidder should remit the performance security prescribed by the Employer in the form as in Clause 34 above and sign the agreement in the presence of the Employer within 28 days from the date of Letter of Acceptance notifying the award of contract.
- 35.3 Upon furnishing the performance security by the successful bidder, the Employer will promptly notify the other bidders that their bids have been unsuccessful.
- 35.4 Failure of the successful bidder to comply with the requirements of Clause 34 and 35.2 of "Award of Contract" shall constitute a breach of contract, cause for annulment of the award, forfeiture of the bid security and any such other remedy the Employer may take under the contract

35.5 Amendment to Agreement

Any amendment shall be issued by mutual consent between the Employer and the contractor only without any contrary to the bid conditions.

36 Mobilization Advance

- 36.1 Mobilization advance will not be provided by the Employer.

37. Forfeiture of Performance Security

- 37.1. The performance security is liable to be forfeited in cases where the firm/contractor fails to carry out the work in accordance with the specifications, terms and conditions of the contract leading to termination of the contract.

IV. PROGRAMME SCHEDULE

38. Project Maintenance mile stone

- 38.1. The twenty eighth day from the date of issue of work order shall be reckoned as the start date of the contract period. If any dispute arises the decision of Engineer is final.
- 38.2. Insurance for the assets of TWAD Board, handed over to the contractor for operation and maintenance to provide water supply to the beneficiaries, contractor's operating and Maintenance staff, third party, Employer's personnel and the Employer's risk should be taken from **the start date of the contract period** and documents to be submitted within 15 days of issue of work order. This should be renewed every year without any lapse till the period of completion. The loss to the property or life, if any, due to default of insurance, will have to be suitably compensated at Contractors own cost and risk as per the rules in force or as ordered by the court of law and TWAD Board will not take any responsibility in such cases.
- 38.3 The Maintenance period is up to 31.3.2024 and the defects liability period is 3 months thereafter.
- 38.4 Entire operation and maintenance of works under this package shall be carried out without omission in compliance with the operation and maintenance manuals, Civil, Electrical, Mechanical and ICA specifications which forms part of this contract and special conditions of Operation and maintenance works. Above shall be carried out upto 31.03.2024 which is the date of completion of this operation and maintenance contract.

39. Programme Schedule / Rate of Progress / Milestone

- 39.1. The Contractor, within 28 days from the date of issue of work order take over the site.
- 39.2.
 - a. Daily water supply to the beneficiaries based on design quantity should be achieved or as directed by Engineer in charge in writing.
 - b. Purchase of spares for 6 months requirement well in advance. Prior approval of the Engineer is mandatory for purchase of any spares.
 - c. Preventive measures should be done as per O&M manual.
 - d. Leak, Burst, repairs and replacement of spares should be attended within the time frame indicated in the special condition of contract.
 - e. Power factor should be maintained.
 - f. Level of residual chlorine, Ph, Fluoride should be tested for safety of water should be reported daily. If any discrepancy are there that should be rectified completely.

40. Penalty for Defective Operation and Maintenance works.

- 40.1 Penalty will be levied for defective Operation and Maintenance of works as specified in the "special conditions of contract".

41. Liquidated Damages.

- 41.1 Liquidated Damages will be levied for the cause specified in the "Special conditions of contract".

42. Foreclosure of Works

- 42.1 The Employer shall have the right to issue notice to the firm/contractor, for any reason whatsoever does not require the whole or part of the works to be carried out after the award of the contract. The contractor shall not have any claim towards compensation or whatsoever, on account of any profit or advantage, which he might have derived from the execution of such works. For the works executed which could not be utilised in view of the foreclosure, the firm/contractor shall be paid a eligible amount as certified by the Engineer.

V. PAYMENTS AND RECOVERIES

43. Payment Schedule

43.1 Payment shall be made in stages for each month as envisaged under:

Payment for milestones for Schedule of prices

Milestone	Payment in % of each item	
	Stage	Total
<ul style="list-style-type: none"> Upon completion of the work / activity on monthly basis 	95%	95%
<ul style="list-style-type: none"> Upon issue of Taking Over certificate of Operation and Maintenance of the works 	5%	100%

43.2

Category	As mentioned in PART-VI	Payment Value
A	At Head Woks / Treatment Plant / Tapping Point	20% of the Agreement value for Schedule A.1 of BOQ.
B	Completion of Preventive Maintenance and schedule of Maintenance as per Clause 1.4 in Part I	20% of the Agreement value for Schedule A.1 of BOQ.
C	Initial Beneficiaries	20% of the Agreement value for Schedule A.1 of BOQ.
D	Intermediate Beneficiaries	20% of the Agreement value for Schedule A.1 of BOQ.
E	Tail end Beneficiaries	20% of the Agreement value for Schedule A.1 of BOQ.

Subject to the condition that the payment will be made as per clause 43.1 to the completion of the above work for the schedule A1 of BOQ.

Payment for the value of work completed in a satisfactory manner as per agreement will be paid. However, 5% (Five percent) of the value of work completed as per agreement will be withheld (as retention amount) in every part payment. Out of 5% (five percent) of bill amount already withheld in the part bills, 2½ % will be released in the final bill and the remaining 2½ % (two and half percent) along with the Performance Security deposit will be released after satisfactory completion of defect liability period of 3 months. Every payment will be made after production of proof of evidence of making payment towards ESI and EPF.

However the percentage of payment to be withheld for effective performance of contract shall not exceed 10% of the total value of the contract.

43.3. Preparation of bills:

The Contractor shall submit their bills every month in the M.Book format, for the quantity only of the relevant running bills, duly signed to the Executive Engineer or any of his subordinate officers under his control as directed by the Executive Engineer. The Executive Engineer shall be responsible to scrutinize and make payment to the Contractor.

44. Release of Performance Security & Retention Amount

- 44.1 Out of the total 5% of the retention amount made in every running bill, 2½ % less any amount due to the Board shall be released in final bill and the balance 2½ % retained along with the Performance Security deposit will be released after satisfactory completion of defect liability period of 3 months.

45. Recovery of money payable to the TWAD Board

- 45.1. All losses, costs, damages and expenses and other money payable to the Board by the contractor under any stipulation in the contract, may be retained out of any money due or which may subsequently become due from the Board to the contractor under any contract or otherwise whatsoever and in case such money then due or to become due to the contractor by the Board shall be insufficient to pay such losses, costs, damages, and other money payable to the TWAD Board by the contractor, it shall be lawful for the Engineer in charge without any further consent on the part of the contractor to sell notes for the securities deposited in the Board by the contractor as aforesaid and with and out of the proceeds of such sale, after payment of all expenses connected therewith or reimburse and pay to the Board all such losses, cost, damages and expenses and other money payable to the contractor. And in case such proceeds of sale of the said securities shall be insufficient for such purpose then and in that case it shall be lawful for the Board to recover the residue thereof, if necessary by legal proceedings and or by resorting to revenue recovery act against the contractor.

46. TDS on Income Tax

- 46.1 During the course of the contract period, deduction of income tax shall be made at the prevailing rates from every payment as may be specified by the Income Tax Department and as amended from time to time.

47. Excise Duty - Deleted

48. GST

GST is Exempted since the value of materials involved is less than 25% , as per Government of India Notification No 2 / 2018 – Central Tax (Rate)/ New Delhi, 25th January 2018 and as amended from time to time.

49. FUND CONTRIBUTION FOR MANUAL WORKERS

- 49.1 Towards contribution of fund for the benefit of manual workers employed in the construction works an amount equivalent to one percent of total estimated cost of the construction work proposed will be paid by the Employer (not to be recovered from the contractor) direct to the respective welfare Board, as per G.O. Ms. No. 295/ Labour and Employment (I 2) Department/ Dated: 17.12.2013, subject to issue of amendments from time to time by the respective department of Government of Tamil Nadu.

(Lumpsum provision for this contribution may be appropriately made in the Estimate sanctioned for the schemes and the amount would be remitted at the end of the financial year to the labour welfare Board, as per G.O Ms. No.283, MAWS Dept, Dated:2010)

50 Price Adjustment.

- 50.1 Price adjustment is not applicable under this maintenance contract.

VI.(A). LIST OF ANNEXURES

Sl. No.	Description	Clause No.
I.	Performance of the bidder showing total monetary value of Civil Engineering works (completed or maintained water supply schemes) for the last three years (2016-17, 2017-18 & 2018-19)	7.1.4
II.	Average Annual Construction Turn over Civil Engineering works (completed or maintained water supply schemes) for the last three financial years	7.1.5
III.	Experience in works of similar nature of Magnitude within a period of last 5 financial years (2014-15, 2015-16, 2016-17, 2017-18 & 2018-19)	7.1.6
IV.	Commitment of works on hand	7.1.6
V.	Works for which Bids are already submitted	7.1.6
VI.	List of Equipments available with Bidder	7.1.7
VII.	Qualification/Experience of key personnel proposed for technical and administrative functions under this contract	7.1.8
VIII.	Sample Format for evidence of access to or availability of credit facilities	7.1.9
IX.	Details of Litigation if any	7.1.10
X.	Declaration by the bidder pertaining to blacklisting/banned/debarment etc.	7.1.11
XI.	Format for O&M staff required for Operating Methodology	List to be enclosed
XII.	Affidavit as an undertaking given by the Contractor should be certified by the Notary duly stamped on a Notaries Stamp (Annexure-XII)	

VI.(B). LIST OF CERTIFICATES

Sl. No.	Description of Certificate	Clause No.
1	Signature of the proprietor or proprietors attested by the Notary Public	2.2
2	Signature of all the partners/power of attorney attested by the Notary Public	2.3
3	Registration of the firm, signature of the authorised person attested by the Notary Public	2.4
4	A copy of the listed power of attorney authorising the signatory of the bidder	7.1.2
5	Proof of registration of firm/Company	7.1.3
6	Audited Balance Sheets for the last 3 financial years	7.1.5
7	Credit line Certificate from Financial institutions	7.1.9
8	Income Tax Clearance Certificate	7.1.13
9	GST Registration Certificate	7.1.14
10	Certificate of performance issued by not less than the rank of Executive Engineer/Responsible person of the private organisation.	7.3

ANNEXURE I (for clause 7.1.4)
(To be notarised)

**Performance of the Bidder showing Total Monetary Value of Civil Engineering works
(executed or maintained water supply scheme) in the last Three Financial Years**

Year	Monetary Value of Civil Engineering works executed or maintained (Rs. in crore)
2016-2017	
2017-2018	
2018-2019	

Seal of the Firm

Signature of the bidder with date

ANNEXURE II (for clause 7.1.5)
(To be notarised)

Average Annual Construction Turnover

Each Bidder must fill in this form

Average Annual Turnover Data (Civil Engineering Work - executed or maintained water supply scheme) in the Last Three Financial years.		
Sl. No.	Year	Amount (Rs. in crore)
1	2016-2017	
2	2017-2018	
3	2018-2019	
	Average Annual Construction Turnover	

The information supplied should be the Annual Turnover of the Bidder in terms of the amounts billed to clients for each year for work in progress or completed.

Seal

.....

(Signature of the Bidder)

ANNEXURE III (for clause 7.1.6)
(To be notarised)

Experience in works of similar nature and magnitude within a period of five financial years

Sl. No	Contract No. and Name of the Project	Description of the work	Name of The employer with full address	Value of the Contract (Rs. In crore)	Date of Issue of Work Order and stipulated period of completion	Actual date of completion	Reason for the delay, if any in Completing the Project

Seal of the firm

Signature of the bidder with date

ANNEXURE IV (for clause 7.1.6)**Commitments of works on hand**

Sl. No	Contract No and Name of the Project	Description of the work	Name of The employer with full address	Value of the contract (Rs. In crore)	Date of Issue of work order and stipulated period of completion	Value of works remaining to be completed (Rs. In crore)	Anticipated date of completion

Seal of the firm**Signature of the bidder with date**

ANNEXURE V (for clause 7.1.6)**Works for which Bids are Already Submitted**

Sl. No	Contract No and Name of the Project	Description of the work	Name of the employer with full address	Value of the contract (Rs. In crore)	Stipulated period of completion	Date when decision is expected	Remarks if any

Seal of the firm**Signature of the bidder with date**

Annexure VI (for clause 7.1.7)

List of Equipment Available with Bidder

Sl. No.	Equipment Name	Requirement for the project		Availability Status			Remarks
		Nos.	Capacity	Owned/ leased/To be procured	Nos and capacity	Age/condition	

Seal of the firm

Signature of the bidder with date

ANNEXURE VII (for clause 7.1.8)
(To be notarised)

Qualification/Experience of key personnel proposed for technical and administrative functions under this contract

Sl. No	Name of the Person	Position for which proposed	Qualification	Total Years of experience	Years of experience in the proposed position	Remarks

Seal of the firm

Signature of the bidder with date

ANNEXURE VIII (for clause 7.1.9)
(To be notarised)

SAMPLE FORMAT FOR EVIDENCE OF ACCESS TO OR AVAILABILITY OF CREDIT FACILITIES

BANK CERTIFICATE

This is to certify that M/s..... is a
reputed company with a good financial standing.

If the contract for the work, namely..... is awarded
to the above firm, we shall be able to provide overdraft/ credit facilities to the extent of Rs..... to
meet their working capital requirements for executing the above contract.

Seal of the Bank

Name of Bank :

Senior Bank Manager :

Address of the Bank. :

ANNEXURE IX (for clause 7.1.10)
(To be notarised)

Details of Litigation, if any.

Sl. No	Name of the Govt. Dept / Private organisation (Other Party)	Cause of the Litigation	Amount involved (Rs. in crore)	Award for (or) against Bidder	Remarks / Present Stage

Seal of the firm

Signature of the bidder with date

ANNEXURE X (for clause 7.1.11)

Declaration by the Bidder:

It is to certify that our firm
.....has **not** been black listed / banned / debarred by any Central/
State / UT Government Department or Undertaking / Organization.

Seal

.....
.....

(Signature of the Bidder)

XI. Format for O&M staff required for operating methodology

(To be filled)

The tenderer should submit the operating staff with methodology to carry out this contract as per the prevailing guidelines and CPHEEO guidelines. The Operating staff should have the required minimum qualification as the case may be as Electrician with C -Certificate, Electrician Grade II with ITI, Fitter Grade II, Turn Cock and Maintenance assistant as per the requirement of works to be performed. All shall able to read and write.

Grade of operating staff	Qualification	Number

Signed
 In the capacity of
 Tenderer's name
 and address

 Date

NOTE: The Tenderer shall include additional sheets as necessary with sign and date.

ANNEXURE-XII

(Affidavit as an undertaking given by the Contractor should be certified by the
Notary duly stamped on a Notaries Stamp)

Model

(to be typed in Rs 100 Non-Judicial Stamp Paper)

AFFIDAVIT OF _____(Name of Contractor).

I/We _____(Name of Contractor) Son of..... (Hindu)

aged about years, Partner/Proprietor/Authorized signatory of -----

having our office at no..... do hereby solemnly affirm and sincerely states as follows:-

I /We state that We have entered in to Operation and Maintenance of CWSS contract with TWAD Board on date.

I/We state that I/We will be the Principal Employer as referred in the labour laws in respect of any operating staff / work person engaged for the purpose of delivery of services under this contract.

I/We state that there will not be any employer and employee relationship between TWAD Board and the workmen employed by us. We will take all responsibilities relating to present Labour Laws with regard to our employees.

I/We state that the workers employed by us in connection with performance of this contract will not claim any right of employment with TWAD Board.

I/We state that this Affidavit can be used as a Document before any Court of Law or Tribunal to defend the TWAD Board.

Solemnly affirm and signed by me on this day of 2020.

DEPONENT

BEFORE ME

NOTARY PUBLIC

VII GENERAL CONDITIONS OF CONTRACT

1. DEFINITIONS

In the Contract (as hereinafter defined) the following words and expressions shall have its meanings hereby assigned to them, except where the context otherwise requires.

"Board" means the Tamil Nadu Water Supply and Drainage Board, a statutory body constituted under the Tamil Nadu Water Supply and Drainage Board Act 1971 having its office at No.31, Kamarajar Salai, Chepauk, Chennai – 600 005 and any officer authorised to act on its behalf

"Employer" means the Tamil Nadu Water Supply and Drainage Board and shall include the officers duly authorised to act on its behalf

"Subcontractor" means any person or persons, firm or company named in the Contract as a Subcontractor for a part of the Works or any person or persons, firm or company to whom a part of the Works has been subcontracted with the consent of the Engineer and includes the authorised representatives, successors, heirs, executors, administrators of such Subcontractors

"Engineer" means the Executive Engineer or any other Engineer appointed from time to time by the Employer to act as Engineer for the purposes of the works brought under this contract

"Engineer in charges" means the Executive Engineer or any other Engineer authorised by him.

Engineer's representative means any Resident Engineer or assistant of the Engineer or any clerk of works appointed from time to time by the Employer or/the Engineer to perform the duties set forth in respect of this Contract.

The quality parameters laid down in relevant BIS, TNBP, Bid Documents etc., are to be followed and it is stipulated to complete the entire works in all respects satisfactorily for the specified period.

"Constructional Plant" means all appliances or things of whatsoever nature required in or about the execution, completion or maintenance of the works but does not include materials or other things included to form or forming part of the permanent works.

"Specification" means the schedules, detailed designs, technical data, performance Characteristics and all such particulars referred to in the bid/contract and any modification thereof or addition thereto as may from time to time be furnished or approved by the Employer.

"Drawings" means the drawings, calculations and technical information referred to in specification and any modification of such drawings approved in writing by the Engineer and such other drawings, calculations and technical information as may to time be furnished or approved in writing by the Engineer.

"Site" means the land and other places on, under, in or through which the Permanent works and/or Temporary Works are to be executed and any other lands and places provided by the Employer for working space or any other purpose as may be specifically designated in the Contract as forming part of the site.

"Approved" means approval in writing including subsequent written confirmation of previous verbal approval

"Test" means such test or tests as are prescribed in the specifications or considered necessary by the Engineer

"ISS" means Indian Standard Specifications

"BIS" means Bureau of Indian Standards

"TNBP" means Tamil Nadu Building Practice

"Day" means a Calendar day from midnight to midnight)

"Week" means seven consecutive days.

"Month" means from the beginning date of a given date of a calendar month to the end the preceding date of the next calendar month

"Quarter" means a period of three months reckoning from the 1st date of January April, July and October and counted to the last date of March, June, September and December respectively.

"Rupees" means Rupees in Indian Currency

"Bill of Quantities" means the priced and completed bill of quantities forming part of the tender

"Tender" means the Contractor's priced offer to the Employer for the execution, completion and maintenance of the Works and the remedying of any defects therein in accordance with the provisions of the Contract, as accepted by the Letter of acceptance

"Letter of Acceptance" means the formal acceptance by the Employer of the Tender

"Contractor Agreement" means the contract agreement referred to in clause (.....)

"Appendix to Tender" means the appendix comprised in the form of Tender annexed in these conditions.

"Commencement date" means the start date of the contract period which shall be reckoned as the twenty eighth day from the date of issue of work order. If any dispute arises the decision of Engineer is final.

"Period of Maintenance" means the time for completing the works as stated in the contract (or as extended under clause....) calculated from the Commencement Date

"Maintenance means" the successful maintenance of the completed and commissioned project as a whole or in parts as the case may be for the stipulated period

"Joint Venture" means two or more firms/contractors aspiring to take up the contract jointly with the lead partner and other partner/partners possessing the required qualification.

"The Defects Liability Period" is the period of three months calculated from the completion date of the contract which will be certified by the Engineer.

"Materials" are all supplies including consumables used by the contractor for incorporation in the works.

CPHEEO (Central Public Health & Environmental Engineering Organisation)

2. INTERPRETATION

In interpretation of these Conditions of Contract, headings shall not be deemed part thereof or be taken into consideration. Words importing persons or parties shall include firms and corporations and any organization having legal capacity. Words importing the singular only also include plural and vice versa where the context requires.

The Employer will provide instructions clarifying the queries about the contract

3. Authority of Engineer in-charge

It shall be accepted that the authority of the Engineer in charge shall be an integral part of the contract in all matters regarding the quality of materials, workmanship, removal of improper work, interpretation of the contract drawings and specifications, mode and procedure of carrying out the works where the decision of the Engineer in charge shall

be final and binding on the contractor. The Engineer in charge shall have absolute authority on all technical matters and payment considerations.

4. Sufficiency of Bid

The Contractor shall be deemed to have satisfied himself as to the correctness and sufficiency of the bid and of the rates and prices stated in the Bill of Quantities, all of which shall, except insofar as it is otherwise provided in the contract, cover all his obligations under the Contract (including those in respect of the supply of goods, materials, Plant or services or of contingencies for which there is a Provisional Sum) and all matters and things necessary for the proper execution and completion of the Works and the remedying of any defects therein.

5. Priority of Contract Documents

The several documents forming the Contract are to be taken as mutually explanatory of one another, but in case of ambiguities or discrepancies the same shall be explained and adjusted by the Engineer who shall thereupon issue to the Contractor instructions thereon and in such event, unless otherwise provided in the Contract. The priority of the documents forming the Contract shall be as follows:

- The Contract Agreement
- The Letter of Acceptance
- The Tender
- Conditions of the Contract
- Technical specifications
- Any other document such as correspondences between the Employer and the Contractor from the date of invitation of tender which is forming part of the Contract

6. Secrecy of the contract document

The Contractor shall treat all documents, correspondence, direction and orders concerning the contract as confidential and restricted in nature by the contractor and shall not divulge or allow access to these matters to any unauthorized person.

7. Instruction in Writing

Instructions given by the Engineer or Engineer's Representative shall be in writing, provided that if for any reason, the Engineer or the Engineer's Representative considers it necessary to give any such instruction orally, the Contractor shall comply with such instruction. Confirmation in writing of such oral instruction given by the Engineer or Engineer's Representative, whether before or after the carrying out of the instructions given by the Engineer or Engineer's Representative, shall be deemed to be an instruction.

8. Commencement of Works

The Contractor shall commence preliminary works after the receipt by him of the LOA to this effect from the Employer. Thereafter, the contractor shall proceed with the Works with due expedition and without delay and in accordance with the programme schedule set out in the Contract.

9. Reference Marks

The basic centre lines, reference points and bench marks shall be fixed by the Engineer in charge of the works.

The contractor shall establish additional reference points and bench marks as may be necessary at his cost. The contractor shall remain responsible for the accuracy and sufficiency of the reference and bench marks. The contractor shall take proper precautionary steps to ensure that the reference lines and bench marks established for the works are not disturbed and shall make good any damages caused.

10. Supervision

The Contractor shall provide all necessary superintendence during the execution of the works and thereafter as may be necessary for the proper fulfilment of the obligations under this contract. The contractor shall arrange for the deployment of proper qualified personnel at the site of work constantly, such supervising staff, apart from those separately set out as the requirements of the contract, shall be skilled and experienced Technical Supervisor /Assistants, and others competent enough to produce proper supervision.

The Contractor shall employ the technical staff as per the prescribed rules. The details of value, scale and minimum qualification prescribed for the employment of technical staff, the rate of penalty for the failure on the part of the contractor to employ the technical staff for the work etc are as follows

Qualification and No.of Technical Supervisor/Assistant to be employed by the contractor.
One B.E (Civil/Mech/EEE/ECE/Instrumentation or equivalent) with 5 year experience. and One B.E (Civil/Mech/EEE/ECE/Instrumentation or equivalent) with 3 year experience. and Five Diploma holders/BE failed with 2 year experience and One Diploma holder in computer science/Computer science with two year experience
Penalty- The rate for failure on the part of the contractor to employ Technical Assistant. 1. For Diploma holder-Rs.2000/per month 2. For Degree holder-Rs.5000/per month

If the contractor fails to employ the technical staff to the departmental requirements, the contractor is liable to pay the penalty as indicated above during the period of such non employment of technical staff.

In the event of any staff of the contractor being non co-operative, negligent, incompetent or misconduct, the Engineer in charge shall have the liberty to object to the placement of such staff at the site or other place of works and will promptly issue notice in writing to the contractor for the removal of such staff members. It will be obligatory on the part of the contractor to remove/change such persons in the larger interests of the works.

11. Subletting of Contract.

Subletting of works is not allowed.

12. Specifications and Checks

Operation and Maintenance of whole works under this Package consisting of Transmission Main from Common Booster Pumping Station at Moongilpatti near Palacaode to Thinnur Master Balancing Reservoir (MBR), Feeder Mains, Break Pressure Tanks, Booster Pumping Stations, Internal Transmission Mains, Internal Networks, Re-chlorination stations, Union MBRs and Panchayat MBRs and Allied works for providing the below mentioned average quantity of treated water to the Hosur union, Kelamanagalm union, Shoolagiri union, Veppanapalli union, Thally union and Karimangalam union Part, Hosur Municipality, Denkanikottai TP, Kelamangalam TP and 1923 Habitations in 182 Panchayats of Dharmapuri and Krishnagiri Districts including Re-Chlorination, water meters and Valves, Electrical works, Air Conditioner, Doors & Windows, Pipe line sanitary arrangement panel board etc., are to be carried out in compliance to the specifications detailed under volume-2, volume-3, volume-4, volume-5, Volume6, Volume 7 specifications and special conditions.

All the volumes from Volume-2 to volume-7 shall be applicable and used in conjunction to derive the works specifications and checks to be made accordingly.

1. General specifications and Particular specifications in volume 2 of Tender documents regarding execution of works, standards to be followed, interface with other Packages under HWS&FM Project, Contract Administration, Health, Safety & Welfare measures to be followed at site, drawings and documentation of plant and activities, Plant testing, training for updating to operating staff, Contractors and Employers obligations during the O&M period, testing on completion of works during taking over and handing over of the works, the standards and methods of execution and maintenance of the civil works for various installations, including Booster pumping stations, Re-chlorination stations, Electrical & ICA works, Building services, etc.
2. Mechanical, Electrical and Instrumentation specifications in volume 3 of Tender documents regarding Mechanical, Electrical and Instrumentation works.
3. Civil specifications in volume 4 of Tender documents regarding civil works.
4. List of equipments in volume 5 of Tender documents.
5. Drawings of structures and installations in volume 6 of Tender documents.
6. Operation & Maintenance Manual in volume 7 of Tender documents regarding procedures for operation and maintenance of every component, preventive and periodical maintenance along with spares and other formats of reporting for monitoring the operation and maintenance.

The spares and materials required for Operation and Maintenance has to be procured from the approved vendors qualified the eligibility criteria.

Log books and history register and all other registers and records as per the operation and maintenance manual are to be maintained for all pumping machineries duly entering hours and quantity of pumping, nature of repairs attended, reason for short falling of pumping hours etc., and periodical reports to be submitted to the engineer.

Reading of flow metres and water meters has to be recorded daily and the quantity of water delivered and reason for short fall if any has to be submitted daily to the engineer apart from periodical reports.

Leak and burst registers with details of pipeline, size and type of pipe, location, nature of leak, date of occurrence and date of rectification has to be maintained and submit periodically apart from daily reporting. Water losses in the pipeline net works and installations shall be assessed authentically with reference to flow meter/ water meter readings and if necessary using the pumping details and has to be recorded, maintained and submitted monthly for effecting payment to monthly bills.

13. Custody and Supply of Drawings and documents

The contractor shall make any number of copies of drawings required by him at his own cost unless it is strictly necessary for the purposes of the contract. The drawings specifications and other documents provided by the Employer or the Engineer in charge shall not, without the consent of the Engineer in charge, be used or communicated to a third party by the contractor.

One copy of the Drawings shall be kept by the Contractor at the site and the same shall be made available for inspection and use by the Engineer and by any other person authorized by the Engineer.

14. Bill of Quantities

The Bill of quantities shall contain items for the, Operation and Maintenance of the Works to be carried out by the Contractor. The Bill of Quantities will be used to calculate the Contract Price. The contractor shall be paid for the quantum of work done at the rate mentioned for each item in the Bill of quantities.

15. Change in the Quantities

If the final quantity of the work done differs from the quantity in the Bill of Quantities for the particular item/items, the rates as in the agreement for the relevant items shall be paid as per the actual quantity.

16. Additional items

If additional items that are not contemplated in the contract are to be executed, the Engineer in charge will execute the works either through the main contractor/firm or through any other agency. Payment for such works shall be made based on the rates derived by the Engineer in charge as per rules in force.

17. Order Book

An order book will be kept by the Officer in charge of the site (Junior Engineer/Assistant Engineer) of the particular component of the works. Orders entered in this book by the Engineer in charge or any higher authority shall be held to have been formally communicated to the contractor/firm. The Officer in charge of the site will sign each order as it is entered and will hand over the duplicate to the contractor/firm or his agent, who shall sign the original in acknowledgement of having received the order.

18. Independent Inspection

The Engineer shall delegate inspection and testing of materials or Plant to an independent inspector/Agency. Any such delegation shall be considered as prerogative of the Engineer. In addition to cost of third party inspection based on rate fixed by TWAD Board, wherever felt necessary, the engineer shall be empowered to test all the materials for its quality in the TWAD Board laboratory or as directed by the Engineer. The cost of the third party quality check of pipes, valves and pump sets shall be borne by the contractor and reimbursed by the Engineer based on the rates fixed by TWAD Board.

19. Covering and Opening of Works.

No work shall be covered or put out of view without the approval of the engineer in charge. The contractor shall give due notice to the Engineer in charge whenever such works are ready for examination and the Engineer in charge within a reasonable period, arrange for the inspection and measuring of the work as may be necessary. No portions of the work shall be covered up without the consent of the Engineer in charge. The cost of opening any portion of the works that was covered without the consent of the Engineer in charge and the cost of covering thereafter shall be borne by the contractor. The contractor shall open the covered portion of the works for inspection by the Engineer in charge on a request and the inspection or examination shall be carried out promptly by the Engineer in charge. In the case of defects notified by the

Engineer in charge, the contractor shall rectify the same as may be instructed by the Engineer in charge. All costs of opening, covering and rectification shall be on to the account of the contractor. Should the contractor refuse to open such portions of works the Engineer in charge shall open such portions with other persons and inspect the part of the works as he may feel necessary. On inspection, the works being not in accordance with the requirements of the contract documents, the Engineer in charge shall carry out necessary rectification and the entire cost of opening, rectification and closing shall be on to the contractor's account.

20. Temporary Diversion of Roads and Commencement of Work.

During Operation and Maintenance of the works, the contractor/firm shall make at his cost all necessary provision for the temporary diversion of roads, car tracks, footpaths, drains, water courses, channels etc., Should the contractor/firm fail to do these arrangements, the same shall be done by the Engineer in charge and the cost thereof shall be recovered from the contractor/firm.

21. Notice to Telephone, Railway and Electric Supply Undertaking.

The Contractor / firm shall give all notices required by any law or custom or as directed by the Engineer in charge and irrespective of whether notice be so required so directed or not, shall in all cases give due and sufficient notices to all persons and authorities having charge of the telegraph, water and other pipes, sewers, culverts drains, water courses, railway, telephone, highways, roads, streets, foot and carriage highways, pavement and other works, prior to commencements and at the completion of any work under this contract in order to enable the proper bodies or

persons in respect of the matters aforesaid to attend and see the works within their jurisdiction and all matters and things incidental and pertaining thereto are secured, re-laid or reinstated in a proper and satisfactory manner. The notices by the contractor/firm shall also serve the purpose of enabling such bodies and persons to attend and secure, shore up, alter the position or remove, relay and reinstate the works and things belonging to them notwithstanding the notices given as aforesaid the Contractor/firm shall be chargeable and responsible for the proper protection and restoration of all matters and things herein referred to.

22. Watching and Lighting

The Contractor/firm at his expense shall provide at the site of works sufficient fencing, barricading, watching and lighting during day and night. The contractor/firm shall in every respect conform to the police regulations in these matters and shall free and relieve the Board on all such matters. Should the contractor/firm fail/neglect to do these arrangements, the same shall be carried out by the Engineer in charge and the costs thereof shall be recovered from the contractor/firm and prevent entry of unauthorised persons.

23. Measurement of Work

The Contractor shall submit the measurement of every month in the M.Book format and the work will be certified by the site Engineer(Junior Engineer / Assistant Engineer). The measurements as accepted by the site engineer shall be taken as final and conclusive.

24. Tools and Plants

All tools, plants and equipments required for this contract will be arranged by the Contractor at his own expense. The Contractor shall erect necessary construction plant as may be necessary and shall use such methods and appliances for the proper performance of all the operations connected with the work brought under the contract ensuring satisfactory quality of work and maintenance of the programme schedule. The non availability of any tool, plant or equipment shall not be relied upon as a reason for non functioning or slow progress.

25. Information and Data

The information and data made available to the contractor in respect of the works and site conditions are only general and the contractor is advised to get himself fully acquainted with the nature of the location of the works and the surroundings, quarries, local conditions and such other aspects that are relevant to the works.

26. Co-existence with other Contractors.

Where two or more contractors are engaged on work in the same vicinity, they shall work together harmoniously with the spirit of cooperation and accommodation. The contractor shall not disrupt or disturb the works or labour arrangements of the neighbouring contractors. In case of disputes and difficulties arising between the contractors in the execution of the respective works, the Engineer in charge shall interfere and give directions for the smooth functioning of the entire works and it shall be the bounden duty of the contractors to abide by these instructions.

27. General Responsibilities and Obligations of the Contractor

The contractor shall, subject to the provisions of the contract, shall operate and maintain the works with proper care and diligence and provide all labour including the supervision thereof, materials, and all other things, whether of a temporary or permanent nature required for such operation and maintenance.

The contractor shall take full responsibility for the adequacy, stability and safety of all site operation and methods of execution.

The contractor shall promptly inform the Employer and the Engineer in charge if any error, omission, fault and other defects in the specification are identified at the time of reviewing the contract documents.

All notices, certificates connected with the work served by the employer relating to the contract shall be sent by post or by hand to the contractor's principal place of business as mentioned in the document or at other places as may be nominated by the contractor in writing for this purpose. Any change in the address of the contractor should be promptly intimated to the Engineer in writing then and there.

The contractor shall visit the spots of work and ascertain the site conditions. The contractor shall satisfy himself of the conditions prevailing in the spots where the work is actually to be executed and its environs and the prices offered by him shall be treated as those which were worked out taking fully into consideration the prevailing site conditions, hydrological conditions, extent and nature of work to be executed, the material availability, etc., Any claim on this ground at a later date shall be summarily rejected.

However during the Operation and Maintenance of the works, if the contractor has to encounter artificial obstructions, which in his opinion could not have been reasonably foreseen, then the contractor shall write forthwith to the Engineer in charge of such obstruction and remedial measures needed. The Engineer in charge, if opined that the conditions cannot be possibly foreseen by an experienced contractor, he shall extend possible assistance to the contractor to overcome such obstructions. The opinion of the Engineer in charge shall be final and binding and the contractor is not entitled to advance these as reasons for any delay that may be caused to the completion of the project.

The contractor shall maintain all works in accordance with the specification and to the satisfaction of the Engineer. The contractor shall strictly adhere to the instructions and directions of the engineer in charge, whether included in the contract agreement or not but concerning the safe and proper Operation and Maintenance of the works.

27.1 Testing operation

At the end of contract period, the Contractor shall carry out certain tests to demonstrate compliance with specified performance of particular items of Plant or parts of the Works shall be carried out independently. These independent tests shall also be a condition precedent to the issue of the Taking-Over Certificate for O&M of the Works. Satisfactory completion of the Tests is a prerequisite for the issue of the Taking-Over Certificate for O&M of the Works at the end of contract period.

27.2 Operation and Maintenance Period of the Works

27.2.1 General

The Employer and the Engineer will arrange to the successful contractor to take over the whole works from the previous contractor through TWAD Board officers to commence the operation and maintenance within 28 days from the date of LOA (Letter of Acceptance) which shall be reckoned as the date of commencement of the contract. If any dispute arises on the date of commencement, the decision of the Engineer is final.

The duration of O&M of the works ends on 31.03.2024 including the taking over and handing over at the start and completion of the contract period. A test on completion for O&M has to be satisfactorily completed by the contractor to demonstrate to the Engineer that the whole works is in good operative condition. The Engineer/Employer will issue a "minor outstanding works and defect list" that the Contractor has to accept to complete in the Defects Liability Period of O&M. The Employer and the Engineer will arrange to hand over (from the contractor now maintaining) of the whole of the works before 28 days to the successful contractor for them to commence the O&M of the whole of the works and to relieve the contractor now maintaining. The contractor now maintaining will complete the minor repairs and defects liability statement issued by the Engineer within one year. Under such scenario, the successful bidder has to allow the previous maintenance Contractor to access all the Plants to rectify the defects identified and complete all the outstanding works in the Defects Liability Period.

27.2.2 Responsibilities of the successful bidder:

Operation and routine maintenance for the whole of the Works,

(a) the contractor has to provide all necessary skilled supervisory staff and unskilled workers necessary for full operation and maintenance of the works.

- (i) The supply of all spare parts required for maintenance of plant as specified elsewhere in the Contract;
- (ii) Provision of all materials including chemicals, consumables, fuel and lubricants excluding electricity power charges for the operation of the Works.

27.2.3 Responsibilities of the previous maintenance contractor:

Rectifying defects in accordance with the requirements entered in the "minor outstanding works and defect list" issued by the Engineer/Employer in this Defects Liability Period of first 12 months at his own cost and shall prove to the Engineer or Employer of that.

27.2.4 Handing over of scheme

After satisfactory operation and maintenance of the Works, the Contractor shall be responsible for the following.

- (a) Handing over of all works to the next successful bidder at the end of 48 months. Before handing over, the contractor has to perform all the tests as prescribed in clause 27.3 of general conditions.
- (b) The handing over period of 28 days by the present contractor to the next successful bidder through the engineer will overlap at the last month of the contract period.

27.2.5 Engineer's responsibilities in O & M of the Works

During the Operation and Maintenance Period, the Engineer will provide and be responsible for the following in respect of the operation and maintenance of the Works:-

- (a) Electric power

27.3 TESTS ON COMPLETION FOR O&M OF THE WORKS

27.3.1 General

Test on Completion at the end of O & M of the Works shall be carried out to show that the Works are in complete and satisfactory working order. The tests shall be agreed in detail with the Engineer and be carried out to an agreed programme which shall be submitted to the Engineer at least 28 days prior to the start of the tests.

The tests will include functionality, leakage and any structural tests necessary to prove that the Works are in full and compliant order, and are fit for purpose.

The Contractor shall also assist the contractor of Package I to test the part of SCADA system with signals taking from the equipment of this Contract. The scope of work related to SCADA system shall be determined among the Contractor, the Engineer and the contractor of Package I.

After all the critical defects and outstanding works be completed and the necessary repeated tests be satisfactorily completed, the Engineer will furnish to the Contractor a "defects and minor outstanding work list". The Contractor shall rectify all those defects and complete all the minor outstanding works in the list during the Defects Liability Period of 3 months from the completion date (after 48 months) of the O&M works.

28. Labour

The contractor shall not employ any person who has not completed fifteen years of age in connection with the works under this contract.

The contractor shall furnish the information on various categories of labour employed by him to the Engineer in charge in the form prescribed for this purpose

The contractor shall in respect of labour employed by him comply with or cause to be complied with the provisions of various labour laws, rules and regulations as applicable to them in regard to all matters provided therein and shall indemnify the Engineer in respect of all claims that may be made against the Engineer for non compliance thereof by the contractor.

Now withstanding anything contained herein, the Engineer reserves the right to take such action as may be deemed fit and proper for the compliance of various labour laws and recover the costs thereof from the contractor.

The contractor shall engage a particular worker for carrying out the specified work for the period not exceeding 235 (Two hundred and thirty five) days in all in a period of 12 Calendar months. Accordingly such a break in line with the above provision shall be exercised instantaneously.

29. Restriction of Working Hours

Subject to any provisions contained in the Contract, none of the works shall, save as hereinafter provided, be carried on during the night or on locally recognized days of rest without the consent of the Engineer, except when work is unavoidable or absolutely necessary for the saving of life or property or for the safety of the Works, in which case the Contractor shall immediately advise the Engineer, Provided that the provisions of this clause shall not be applicable in the case of any work which is customary to carry out by multiple shifts.

30. Right of Way and Facilities

The Contractor shall bear all costs and charges for special or temporary rights of way required by him in connection with access to site. The Contractor shall also provide at his own cost any additional facilities outside the Site required by him for the purposes of the Works.

31. Removal of Improper Work, Material and Plant

The contractor shall make his own arrangements for the procurement, supply and use of the construction materials and shall ensure that the materials either procured within the country or abroad conform to the relevant specifications set out in the bid documents. In case of alternatives being used, they should be of equal or higher quality than those specified subject to the review and written approval of the Engineer in charge. Differences between the standards specified and the proposed alternatives must be described in writing to the Engineer in charge at least 30 days in advance from the date on which the approval of the Engineer in charge is needed. The disapproval of the proposal by the Engineer in charge shall result in the contractor confining to the standards set forth in the contract documents. The contractor shall arrange for the inspection of the material at the manufacturing place or other places by the department personnel

All materials and workmanship shall be in accordance with the specifications set out in the contract document and as directed by the Engineer in charge and shall be subjected to tests by the Engineer in charge or his representative at the place of manufacture or at the site of work or places wherever felt necessary. The contractor shall provide all the assistance necessary including instruments, machines and materials that are normally required for carrying out the testing/measuring the quality/quantity of the materials and workmanship. Any material rejected

after testing by the Engineer in charge or his representative will not be used on the works. The contractor shall without claiming any extra cost, shall arrange for the testing of materials and supervision of the works. The Engineer in charge or his authorized representative will have access at all times to the places of manufacture, storage to ascertain as to whether the manufacturing process wherever mentioned is in accordance with the drawings and specifications

The Engineer in charge shall have the right to order the removal of such materials which in his opinion are substandard stipulating a time limit for the removal of the same and replacement with quality material

Notwithstanding the previous tests of the materials by the Engineer in charge or his representative, if any portion of the work, in the opinion of the Engineer in charge is not in order, the contractor shall redo such work to the satisfaction of the Engineer at no extra cost. In case of default on the part of the contractor in carrying out such orders, then the Engineer shall have the right to carry out such works through some other persons and the expenses thereon or incidental thereto shall be recoverable from the contractor.

32. Default of Contractor in Compliance

In case of default on the part of the Contractor in carrying out such instruction within the time specified therein, if none, within a reasonable time, the Engineer shall be entitled to employ and pay other persons to carry out the same and all costs consequent thereon or incidental thereto shall after due consultation with the Engineer and the Contractor, be determined by the Engineer and shall be recoverable from the Contractor by the Engineer, and shall be deducted by the Engineer from any monies due or to become due to the Contractor and the Engineer shall notify the Contractor accordingly, with a copy to the Engineer.

33. Default by Contractor

If the contractor shall become bankrupt or have a receiving order made against him or shall present his petition in bankruptcy or shall make an arrangement with or assignment in favour of his creditors or shall agree to carry out the contract under a committee of inspection of his creditors, or being a corporation shall go into liquidation (other than a voluntary liquidation for the purpose of amalgamation or reconstruction), or if the contractor shall assign the contract, without the consent in writing of the Engineer first obtained, or shall have an execution levied on his goods, or if the engineer in charge shall certify in writing to the Engineer that in his opinion, the contractor.

- a) Has abandoned the contract
- b) Without reasonable excuse has failed to commence the works or has suspended the progress of works for twenty eight days after receiving a written notice from the Engineer in charge to proceed
- c) Has failed to remove materials from the site or to pull down and replace work for twenty eight days after receiving the written notice from the engineer in charge stating that the said materials or work stands condemned and rejected under these conditions
- d) Despite previous warnings in writing by the Engineer in charge, not executing the works and flagrantly neglecting to carry out the obligations under this contract.
- e) Has, to the detriment of good workmanship, or in defiance of the instructions of the Engineer in charge or in contract sublet any part of the contract, then the Engineer, may at his option, after giving two weeks notice in writing to the contractor, enter upon the site and the works and expel the contractor there from without thereby voiding.
- f) The contract, or releasing the contractor from any of his obligation or liabilities under this contract, and may himself complete the works or may employ any other contractor to complete the work. The Engineer or such other contractor may use the construction plant, temporary works and materials which have been deemed to be reserved exclusively for the execution of the works under the provisions of the contract as may be thought fit and proper for the completion of the work. The Engineer may, at anytime, sell any of the said constructional plant, temporary works and materials which have been deemed to be reserved exclusively for the execution of the works under the provisions of the contract as may be thought fit and proper for the completion of the work. The Engineer may, at any time, sell any of the said constructional plant, temporary works and unused materials and apply the proceeds of sale in or towards the satisfaction of any sums due or which may become due to him from the contractor under this contract.

- g) has carried out the work in a defective manner.
- h) has not made payment of labour dues.
- i) has become eligible for maximum compensation under the "Liquidated damages" clause leading to Termination of the contract.

The Engineer in charge shall as soon as may be practicable after any such entry or expulsion by the Employer, fix and determine expert or by after reference to the parties, or after such investigation or enquiries as maybe thought fit to make or institute, and shall clarify what amount, if any had at the time of such entry and expulsion been reasonably occurred to the contractor in respect of work then actually done by him under this contract and the value of any of the said unused or partially used materials, any constructional plant and any temporary woks.

If the Employer shall enter and expel the contractor under this clause, the Engineer shall not be liable to pay to the contractor any money on account of the contract until the expiration of the period of maintenance and thereafter until the costs of execution and maintenance, damages for delay in completion, if any and all other expenses incurred by the Engineer have been ascertained and the amount thereof certified by the engineer. The contractor shall then be entitled to receive only such sum or sums, if any as the engineer in charge may certify would have payable to him

upon due completion by him after deducting the said amount. If such amount shall exceed the sum which would have been payable to the contractor on due completion by him, then the contractor shall, upon demand, pay to the Engineer the amount of such excess and it shall be deemed a debt due by the contractor to the Engineer and shall be recoverable accordingly.

If, by reason of any accident, or failure, or other event occurring to or in connection with the work, or any part thereof, either during the execution of the works, or during the period of maintenance, any remedial or other work or repair shall in the opinion of the Engineer in charge or his authorized representative, be urgently necessary for the safety of the works and the contractor is unable or unwilling at once to do such work or repair as the Engineer in charge or his representative may consider necessary, such works shall be carried out by the Engineer in charge. If the work or repair so done, which in the opinion of the Engineer in charge, liable to have been done by the contractor at his expense under this contract, all expenses incurred by the Engineer in carrying out such works shall be recoverable from the contractor or shall be deducted by the Engineer from the money due to the contractor provided always that the Engineer in charge or his representative, as the case may be, shall as soon after the occurrence of any such emergency as may be reasonably practicable, notify the contractor thereof in writing.

34. Power to vary work

The description of the works required to be executed by the contractor/firm are set out in the specifications, schedules and drawings, but the Engineer in charge reserves the power to vary, extend or diminish the quantities of work, to alter the line, level or position of any work, to increase, change or decrease the size, quality, description, character or kind of any work, to order

the contractor/firm to execute the works or any part thereof, by day or night work, or to add or take from the work included in the contract as he may deem fit and proper without violating the contract and the contractor/firm shall not have any claim upon the Engineer for any such variation, extension, diminution, alteration, increase, change or decrease other than for the work actually done, calculated according to the prices tendered and accepted in this contract.

35. Extra for Varied Works

Any unforeseen additional work that may become necessary and is accordingly carried out under this contract based on proper written orders shall be measured and valued by the Engineer in charge at the rates contained in the contractor's/firm's original bill of quantities. If these rates do not apply to the additional works ordered to be carried out, then prior to execution of the additional work, a rate for such work shall be based on the prevailing Schedule of rates or if both cases not relevant or applicable then rate for such work shall ordinarily be fixed based on the actual vouchers and entered in a supplemental schedule and signed by the employer and the contractor/firm.

36. Omissions

In the event of anything reasonably necessary or proper to the due and complete performance of the work (Engineer in charge will be the sole judge on these things) being omitted to be shown or described in the drawings, specifications and schedules, the contractor/firm shall notwithstanding execute and provide at the rates noted in the bill of quantities all such omitted works and things as if they have been severally shown and described and the execution should be according to the directions of the Engineer in charge and to his satisfaction.

37. Notices Regarding Shoring etc.,

Wherever shoring or other works for the protection or security of the buildings/structures are necessary, the contractor/firm shall within a reasonable period before the execution of such works, shall serve notices well in advance upon the occupiers of the buildings/structures to be shored up or otherwise secured and upon all other parties entitled to notice, apprising them respectively that such works are necessary, that the contractor/ firm about to execute the same and will, at a time to be specified in such notice, enter upon the premises for the purpose of executing such works.

38. Cost of Repairs

Loss or damage to the Works or materials to be incorporated in the works between the Start Date and the end of the Defects correction periods shall be remedied by the Contractor at the Contractor's cost if the loss or damage arises from the Contractor's acts or omissions. Contractor shall attend to the defect in the work noticed during defects correction period within 3 days from the date of issue of notice to attend to the defects, failing which the defect will be remedied by engaging other Contractors at any cost and that cost will be recovered from the Contractor's money available with the Engineer and balance alone will be paid when it is due.

39. Suspension of Work

The Contractor shall, on the instructions of the engineer, suspend the progress of the Works or any part thereof for such time and in such manner as the Engineer may consider necessary and shall, during such suspension, properly protect and secure the Works or such part thereof so far as is necessary in the opinion of the Engineer in charge.

40. Suspension of Progress

The contractor/firm shall, without recompense, claim or demand, delay or suspend the progress of works as a whole or any part thereof, if and when or so often as directed by the Engineer in charge and for such time or times, as may be in the judgment of the Engineer in charge be necessary for the purposes or advantages of the undertaking. Upon all such occasions, whether directed or not, the contractor/firm at his/their expense, properly cover down and secure so much of the work as may be liable to sustain damage from weather or any other cause and shall at all times and forthwith when required properly make good all the damage or injury which such works or any part thereof may have sustained and these should be done to the entire satisfaction of the Engineer in charge.

41. Termination

The employer may terminate the contract, when it is opposed / contrary to the covenant of the terms of the contract.

The employer shall issue notice of 15 days time to rectify and in the event of failure to rectify / comply the terms of the contract, the contract stands terminated on the 16th day from the date of issue of notice.

On termination of the contract, the employer shall withhold the amount payable to the contractor and the security deposit by the contractor till the amounts due to the Board are recovered.

The Employer may terminate the Contract for any reason that is regarded as breach of the Contract.

If the contract is terminated, the contractor shall stop work immediately, make the site safe and secure , After properly closing all the pits or open bore wells which shall not be abandoned and which may cause endanger to the public who are having close proximity in the site abandoned and leave the site as soon as reasonably possible on termination of the contract, the Engineer shall issue a certificate for the value of work done less payments received upto the date of

the issue of certificates, less other recoveries due in terms of the contract, less taxes due to be deducted at source as per applicable law and less the percentage to apply to the work not completed. If the total amount due to the Engineer exceeds any payment due to the Contractor the difference shall be treated as debt payable to the Engineer and can be recovered from any amount due or may become due to the contractor.

In the case of termination, works that are pending for the proper completion of the project, shall be carried out by the Employer either by themselves or through any other agency. Any additional expenditure over the value finalised in the contract for any component or for the

whole project, incurred by the Employer due to such termination, shall become recoverable from the contractor/firm whose contract stands terminated, from the money due or may become due to him/them. All materials on the Site, Plant, Equipment, Temporary Works and Works are deemed to be the property of the Employer, if the Contract is terminated because of Contractor's default.

42. Plant etc., not to be removed

The plant, tools and materials provided by the contractor/firm shall, from the time they are brought to the site of the works, during the construction, operation and maintenance and until the satisfactory completion of the contract, shall become and continue to be the property intended for the proper fulfilment of the contract and the contractor/firm shall not remove the same or part thereof without the consent of the Engineer in charge in writing.

43. Contractor not to occupy Land etc

In no case shall the contractor/firm continue to use or occupy or allow to be used or occupied any land or property either for the deposit of materials or plant or for any purpose whatever, after written notice from the Engineer in charge served on the contractor/ firm to the effect requiring the contractor/firm to remove or cause to be removed all such materials from any such land or property as aforesaid and to give vacant possession of such land or property to the Engineer in charge. All such notices shall be served through post office or other modes of delivery to the contractor/firm at his/their usual or last known place of business, It is enough for the Engineer in charge to send the notice through any mode of delivery as he may prefer and implement this clause irrespective of the receipt of the notice by the contractor/firm. Should any materials or plant remain upon any such property or land or should any such land or property continue to be occupied or be used after such notice for any purpose whatsoever as aforesaid, then and in every such case and as often as the same shall happen, the contractor/firm shall forfeit and on demand pay to the Employer the charges fixed by the Engineer in charge as and for liquidated and ascertained damages for each and every day during which the said lands or property are so used and occupied as aforesaid from the time of such notice shall have been served.

44. Power Supply

The power supply connection if any from the TNEB has to be obtained by the contractor himself and the charges thereon shall be borne by the contractor. However, necessary vouchers in original for the payment made to the TNEB shall be produced to the Engineer in charge by the contractor, which will be reimbursed by the Engineer.

45. Completion of Operation and Maintenance of work and Handing over

After completion of Operation and maintenance period the scheme shall be handed over to the Engineer in charge as specified in the General Conditions of Contract clause 27.

46. Final Certificate

When the works covered under this contract are completed in all respects, the contractor / firm shall submit a request to the Engineer in charge to make a final measurement of the works and take over the whole of the works on behalf of the Employer and issue a final certificate to enable him/them to submit a final bill for payment. The Engineer in charge shall thereupon, unless he records reasons in writing to the contrary, make a final measurement of the works and take them over on behalf of the Employer and sign a certificate purporting to be a last certificate. Nothing in this clause or in the agreement shall prohibit the Employer taking over and using any portion of the works, which may be completed prior to the completion of the whole works of this contract.

47. Completion Certificate

The Contractor shall request the Engineer to issue a certificate of Completion of the Works and the Engineer shall issue certificate of completion after satisfactory completion of the works in all respects.

48. Taking Over

The Engineer in charge shall take over the Site with the works within the last twenty eight days on satisfactory completion of the maintenance of the entire project for the stipulated period as contemplated in this contract.

49. Performance Guarantee

The period of guarantee for the entire works shall be 3 months from the date of taking over certificate of the project/entire O&M Period to the satisfaction of the Engineer in charge of the work. If defects are noticed during the guarantee period, the firm/contractor shall rectify/replace wherever necessary at its/his own cost within 30 days of such intimation. If the contractor/firm fails to carry out rectification within the stipulated time, the rectification works shall be carried out by the Engineer at the risk and cost of the contractor/firm and contractor/firm will become ineligible for the payment of the retention amount for the said purpose.

50. Maintenance of the Project

During the period of maintenance, all costs towards Labours, spares, chemicals, repairs and renewals shall be paid as per BOQ. The electrical energy charges payable to the TNEB during the maintenance period shall be borne by the Engineer.

51. Operating and Maintenance Manual

The operation and maintenance manual shall be followed as per Volume 7 of the bid document. In respect of Operating and maintenance manuals shall be updated by the contractor/firm based on their experience, at the time of handing over on completion of work at his/their cost.

52. Work on Private Property

The contractor/firm shall not commence any work in or upon, under, across of through any land, house building, shed, yard, area, roadway, ground, garden or any other place being private property until authorised in writing by the Engineer in charge to do so.

53. Protection

It will be the responsibility of the contractor to take adequate precautions and protect the adjoining sites against structural, decorative and other damages. The contractor shall be responsible for the safety of the public properties wherever the works are executed. Whenever damages are caused to the adjoining structures, roads, bridges etc due to the execution of this contract, it will be the responsibility of the contractor to restore them to their original level at his cost.

54. Accident or Injury to Workmen

The Employer shall not be liable for or in respect of any damages or compensation payable to any workman or other person in the employment of the Contractor. The Contractor shall indemnify and keep indemnified the Engineer against all such damages and compensation and against all claims, proceedings, damages, costs, charges and expenses whatsoever in respect thereof or in relation thereto.

55. Insurance , ESI and EPF

Insurance for the assets of TWAD Board, handed over to the contractor for operation and maintenance to provide water supply to the beneficiaries contractor's operating and supervisory staff, third party, Employer's personnel and the Employer's risk should be taken from the date of start date of the contract period and documents to be submitted within 15 days of issue of work order. This should be renewed every year without any lapse till the period of completion. Due to default of insurance, any loss to the property or life will have to be suitably compensated at

contractors own cost and risk as per the rules in force or as ordered by the court of law and TWAD Board will not take any responsibility in such cases.

Payment towards Principle employer's (Contractor) share of ESI and EPF will be reimbursed to the contractor on production of actual vouchers.

56. Care and Risk

From the date of commencement of maintenance to the date of completion of the work and during the period of maintenance, the contractor shall take full responsibility and care thereof for the safety of the installation connected with the works. Any damage or loss are to be made good at the risk and cost of the contractor and shall ensure conformity in every respect with the requirements of the contract. The contractor shall be liable for any damage to the works occasioned by him in the course of any operation carried out by him for the purpose of completing any outstanding work and the damage so occurred shall be rectified at the cost of the contractor.

57. Safety Provisions

The Contractor shall be responsible for the safety of all activities on the Site.

- 1) Suitable scaffolds shall be provided for workers for all that cannot safely be done from the ground or from solid construction, except such short period work, as can be done safely from ladders. When a ladder is used, an extra mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying materials as well, suitable footholds and handholds shall be provided on the ladder and the ladder shall be given an inclination no steeper than 1\4 to 1 (1\4 horizontal to 1 vertical). IS code for scaffolding and ladders I.S 3696 Part -I and Part II and its latest revisions is to be followed.
- 2) Scaffolding or staging more than 3.25 meters above the ground or floor swung or suspended from an overhead support or erection with stationary support, shall have guard rail properly attached bolted, braced and otherwise secured atleast 1 metre high above the floor or platform of such scaffolding of staging and extending along the entire length of the outside and ends thereof with only such openings as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or the structure.
- 3) Working platform, gangways and stairways shall be so constructed that they do not sag unduly or unequally, and if height of a platform or gangways or stairway is more than 3.25 metres above ground level, it shall be closely boarded, having adequate width and be suitably fenced, as described in 2 above. Every opening in floor of a building or in a working platform shall be provided with suitable means to prevent fall of persons or materials by providing suitable fencing or railing with a minimum height of 1 meter. Safe means of access shall be provided to all working platforms and other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 7 metres in length. Width between side rails in a rung ladder shall in no case be less than 30 cm, for ladders, this width shall be increased by atleast 6mm for each additional 30cm length. Uniform steps spacing shall not exceed 30cm.
- 4) Adequate precautions shall be taken to prevent danger from electrical equipment. No material on any of the sites shall be so stocked or placed as to cause danger or inconvenience to any person or to the public. The Contractor shall provide all necessary fencing and lights to protect public from accidents and shall be bound to bear expenses of defence of every suit, action or proceedings at law that may be brought by any person for injury sustaining, owing to neglect of the above precautions and to any such suit, action or proceedings to any such person or which may with the consent of the Contractor be paid to compromise any claim by any such person.
- 5) All necessary personal safety equipment as considered adequate by the Engineer shall be available for use of persons employed on the site and maintained in a condition suitable for immediate use and the Contractor shall take adequate steps to ensure proper use of equipment by those concerned
 - a) Workers employed on mixing asphalt materials, cement and lime mortars/ concrete shall be provided with protective footwear, hand gloves and goggles.

- b) Those engaged in handling any materials, which is injurious to eyes, shall be provided with protective goggles.
 - c) Stonebreakers shall be provided with protective goggles and protective clothing.
 - d) When workers are employed in Manholes, which are in use, the Contractor shall ensure that manhole covers are opened and manholes are ventilated atleast for an hour before workers are allowed to get into them. Manholes so opened shall be cordoned-off with suitable railing and warning signals or boards provided to prevent accident to public.
 - e) The Contractor shall not employ men below the age of 15 and women on the work of painting with products containing lead in any form. Whenever men above the age of 18 are employed on the work of lead painting the following precautions shall be taken:
 - i. No paint containing lead or lead products shall be used except in the form of paste of ready-made paint.
 - ii. Suitable face masks shall be supplied for use by workers when paint is applied in the form of spray or a surface having lead paint dry rubbed and scraped.
 - iii. Overalls shall be supplied by the Contractor to workmen and adequate facilities shall be provided to enable working painters to wash during and on cessation of works.
- 6) When the work is done near any place where there is risk of drowning, all necessary equipment shall be provided and kept ready for use and all necessary steps shall be taken for prompt rescue of any person in danger and adequate provisions shall be made for prompt first aid treatment of all injuries likely to be sustained during the course of the work.
- 7) Use of hoisting machines and tacks including their attachments, anchorage and supports shall conform to the following:
- a) i) These shall be of good mechanical construction, sound material and adequate strength and free from patent defects and shall be kept in good working order.
 - ii) Every rope used in hoisting or lowering materials or as a means of suspension shall be of durable quality and adequate strength, and free from patent defects
 - b) Every crane driver or hoisting appliance operator shall be properly qualified and no person under the age of 21 years shall be in-charge of a hoisting machine, including any scaffold winch or giving signals to operator.
 - c) In case of every hoisting machine and of every chain ring hook, shackle, swivel and pulley block used in hoisting machine or lowering or as means of suspension, safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with safe working load. In case of hoisting machine having a variable safe working load and the conditions under which it is applicable shall be clearly indicated. No part of any machine or of any gear referred to above in this paragraph shall be loaded beyond safe working load except for the purpose of testing.
 - d) In case of departmental machine, safe working load shall be notified by the Engineer. As regards Contractor's machine, the Contractor shall notify safe working load of each machine to the Engineer whenever he brings to the site of work and he shall get it verified by the Engineer.
- 8) Motors, gearing, transmission, electrical wiring and other dangerous parts or hoisting appliance shall be provided with such means so as to reduce to minimum risk and Accidental descending of load; adequate precautions shall be taken to reduce to the minimum risk of any part of a suspended load becoming accidentally displaced. When workers are employed on electrical installations, which are already energized, insulating mats, wearing apparel such as gloves, sleeves and boots, as may be necessary shall be provided. Workers shall not wear any rings, watches and carry keys or other materials, which are good conductors of electricity.

- 9) All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in a safe condition and no scaffold ladder or equipment shall be altered or removed, while it is in use. Adequate washing facilities shall be provided at or near place of work.
- 10) The safety provision shall be brought to the notice of all concerned by displaying on a notice board at a prominent place at the work spot, persons responsible for ensuring compliance with the safety provision shall be named therein by the Contractor.
- 11) To ensure effective enforcement of the rules and regulations relating to safety precautions, arrangements made by the Contractor shall be open to inspection by the Engineer or his representative and the inspecting Officer.
- 12) The Contractor shall obtain prior permission of the competent authority such as Chief of Fire services for the site, manner and method of storing explosives near the site of work. All handling of explosives including storage, transport shall be carried out under the rules approved by the — Explosive Department of the Government.
- 13) The Contractor shall at his own cost provide and maintain at the sites of works, standard first aid box as directed and approved by the Engineer, for the use of his own as well as the Employer's staff on site.
- 14) Notwithstanding the above provision 1 to 13 Contractor is not exempted from the operation of any other Act or rules in force relating to safety provisions.

58. Provision of Health and Sanitary Arrangements

The contractor/firm shall provide at his/their own expenses, first aid appliances and medicines including an adequate supply of sterilized dressing and sterilized cotton wool etc kept in good order under the charge of a responsible person who shall be readily available during working hours. Water of good quality fit for drinking purposes shall be provided for the work people on a scale of not less than 15 litres per head per day. Each water supply storage shall be at a distance of not less than 15 metres from any latrine, drain or other source of pollution. Where water has to be drawn from an existing well which is within such proximity of latrine, drain or other sources of pollution, the well shall be properly chlorinated before water is drawn from it for drinking.

Adequate washing and bathing places shall be provided separately for men and women and such places shall be kept in clean and drained condition. Latrines and urinals shall be provided within the precincts of work place and the accommodation separately for each of them shall be at the rate of 2 seats upto 50 persons, 3 seats above 50 persons but not exceeding 100 persons, and 3 seats for every additional 100 persons. The contractor/firm shall employ adequate number of scavengers and conservancy staff to maintain the latrines and urinals in a clean condition. Two sheds one for meals and the other for rest shall be provided separately for the use of men and women workers and properly maintained.

All the above amenities shall be provided at the contractor's/firm's own expenses besides providing sheds for his/their workmen.

59. Patent Rights

The Contractor shall save harmless and indemnify the Employer from and against all claims and proceedings for or on account of infringement of any patent rights, design trademark or name or other protected rights in respect of any Contractor's Equipment, material or Plant used for or in connection with or for incorporation in the Works and from and against all damages, costs, charges and expenses whatsoever in respect thereof or in relation thereto.

60. Royalties

Except where otherwise stated, the Contractor shall pay all seignorage and other royalties, rent and other payments or compensation, if any, for getting stone, sand, gravel, clay or other materials required for the Works.

61. Old Curiosities

All old curiosities, relics, coins, minerals and any other item of archeological importance found at the site shall be the property of the Government and shall be handed over to the Engineer in charge for depositing to the Government exchequer. Should any structure be uncovered, the instruction of the Engineer in charge shall be provided before demolition or removal of the structure.

62. Contractor dying, becoming Insolvent or Insane

In the event of death or insanity of the contractor, the contract may be terminated by notice in writing, pasted at the site and advertised in the issue of the local newspaper. All acceptable works shall thereafter, be paid at appropriate rates after recovering all the contractor's dues by the Engineer, to the persons entitled to receive and give a discharge for such payments.

If the contractor is imprisoned because insolvent compound with his creditors has a receiving order made against him or carries on business under receiver for the benefit of the creditors of any of them or being a corporation goes into liquidation or commences to be wound up not being a voluntary winding up for the purpose only of amalgamation or reconstruction, the employer shall be at liberty.

- a) To give such liquidator, receiver or other persons in whom the contract may become vested the option of carrying out the contract or a portion thereof to be determined by the employer, subject to his providing an appropriate guarantee for the performance of such contractor.
- b) To terminate the contract forthwith by notice in writing to the contractor the liquidator, the receiver or person in whom the contract may become vested and take further actions as provided in the clause pertaining to default by contractor, treating as if this termination is ordered under the respective clause.

63. Force Majeure

The works taken by the contractors under the contract shall be at the contractor's risk until the work is taken over by the Executive Engineer. The contractor shall arrange his own insurance against fire, flood, volcanic eruption, earthquake and other convulsions of nature and all other natural calamities, risks arising out of acts of god, Acts of Terrorism, Civil disturbances, Riots during such period and that the TWAD Board/Government shall not be liable for any loss or damages occasioned by or arising out of any such acts of God.

Provided however that the contractor shall not be liable for all or any loss or damages occasioned by or arising out of acts of foreign enemies, invasion, hostilities or war like operations (before or after declaration of war) rebellion military or usurped power.

64. Payment out of Public Funds

The payments to the contractor/firm shall be made out of the funds under the control of the Employer in their public capacity and no member or officer of the Employer shall be personally responsible to the contractor/firm.

65. Bribery and Collusion

In the event of the contractor offering or giving any official of the Employer/ Engineer, any gift or consideration of any kind as an inducement or regard for doing, or for bearing to do, any action in relation to obtaining or in the execution of the contract or any other contract with the employer, or for showing favour to any person in relation to the contract or any other contract with the employer, or if any of the such acts shall have been done by any person employed by the contractor or acting on his behalf, either with the knowledge of the contractor or not which are all grounds for the employer to terminate the contract awarded to the contractor. Similarly if the contractor colludes with another contractor or number of contractors whereby an agreed quotation or estimate shall be offered as a bid that will also form the basis for the employer to terminate the contract.

66. Technical audit

It is a term of this contract that department shall have the right to carry out post payment audit and technical Audit by the Engineers of Technical audit cell (or by an approved consultant of repute). The Technical audit officer shall have the powers to inspect the work or supply running account bill, final bill and other vouchers, measurement books, test reports and other documents either during progress of work or after completion of the same and order recoveries from the contractor for recorded reasons even though the contractor might have been paid earlier. These recoveries are enforceable against the contractor from any amount due to him, from performance security or withheld amounts or any amounts due to the contractor or may become due to him from the department in any work or supply.

67. Settlement of dispute

a. Dispute Redressal Committee

In order to ensure a dispute Redressal mechanism, a Committee headed by the Managing Director / Joint Managing Director and consisting of Engineering Director, TWAD Board and Engineering Director, CMWSS Board as Member, will comprise the " Dispute Redressal Committee" for each package in order to resolve any disputes between the Employer / Engineer - incharge concerned and the contractor

b. Jurisdiction of Court

In the event of non settlement of any dispute by the Dispute Redressal Committee arising between the parties hereto in respect of any matter comprised in the contract, the same shall be settled by a competent court having jurisdiction over the place where the contract is awarded and agreement is concluded and by no other court.

C. Arbitration: In view of the above Dispute Redressal Committee, arbitration is not part of this Contract

68. Reservation of Right

The Employer reserves the right to accept or reject any or all the bids and to annul the entire process of bidding at any time. Under such circumstances, the Employer will neither be under any obligation to inform the bidders of the grounds for the action of the Employer nor the Employer will be responsible for any liability incurred by the bidder on this account.

69. Engineer's Decisions

Except where otherwise specifically stated the Employer will decide contractual matters between the Engineer and the Contractor.

70. Instructions

The Contractor shall carry out all instructions of the Engineer, which comply with the applicable laws where the Site is located.

The Engineer may instruct the Contractor to delay the start or progress of any activity within the Works.

71. Schedule of Maintenance

The schedule of maintenance shall be carried out as prescribed/detailed in the Operation and Maintenance manual volume 7 and as directed by the Engineer without omission. Any omission will be construed as default in the works and penalty will be levied as per the "Special condition of contract".

72. Equipments and Tools to be made available.

At each pumping station required tools and equipment to carry out the day to day activities minor repairs etc., as required and in specific to that pumping station or any other equipment installed as well as to maintain the premises in good environmental condition.

73. Spares

The list of spares (Mechanical, Electrical, ICA, Pipeline and Miscellaneous) annexed in this document are only tentative and has been arrived from the repairs met out in the previous years of maintenance. This may vary. The bidder has to anticipate the nature of all repairs that has to be carried out according to the present life of the machineries and quote the rate accordingly. The required spares that are anticipated have to be listed by the bidder and the total cost to be quoted in the BOQ accordingly. Before procurement , the list of spares has to be got approved by the Engineer.

The amount quoted for total spares should be utilized within that year itself. If any unutilized spares purchased in the previous year will be carried forward to the next year. The payment will be made based on the original Invoices by the Engineer. The amount prescribed for each year should not exceed at any cost.

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PART I

ROLES AND RESPONSIBILITIES OF THE CONTRACTOR

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1.1. INTERPRETATION OF TERMINOLOGIES

1.1.1. In these conditions of contract the following definitions shall apply:

1.1.2 The Tender inviting authority and Tender Accepting Authority means Tamil Nadu Water Supply and Drainage Board

1.1.3 The Implementing authority/Department means Tamil Nadu Water Supply and Drainage Board

1.1.4 The Principal Employer

(a) In relation to TWAD Board, Engineer is (Executive Engineer / Superintending Engineer/Chief Engineer) specified in this behalf by TWAD Board;

(b) in any other establishment the person who is responsible for supervision and control of the establishment;

(c) The contractor, in respect of any operating staff / work person engaged by the Contractor for carrying the service delivery of water under this contractor.

1.1.5 The contract means the agreement concluded between the authority and the contractor, including all specifications, patterns, contractor's samples, plans, drawings and other documents incorporated or referred to there in.

1.1.6 The contractor means the person/agency who has been awarded the work and undertakes the Operation and maintenance of the CWSS.

1.1.7 The contract price means the price mentioned in the price schedule of the agreement for the respective items of works carried out, that is payable to the contractor by the authority under the contract for the full and proper performance by the contractor or its part of the contract.

1.1.8 The work means the work of providing designed quantity of water to all the habitations covered under the scope of the project, attending leaks/ bursts occurred during the maintenance period, attending repair works on the goods and equipments that the contractor is required to provide under the contract to establish the above mentioned service.

1.1.9 MLD is Million litres per day which equals 10,00,000 litres in one day.

1.2. Responsibilities of the Contractor regarding O&M of this Scheme.

- 1.2.1 A joint inspection to be conducted by the Contractor with TWAD Board Officials before taking over of the CWSS for maintenance.
- 1.2.2 The Contractor should take over the scheme after award of work for maintenance and handover the scheme in good condition, on completion of agreement period.
- 1.2.3 Before taking over the CWSS/WSS, inspect the Alignment and to check presence of any illegal connections (any connections other than the scope of the project) in the alignment during takeover of the scheme for maintenance. **If any illegal connection found during the course of taking over, the same shall be removed at the cost of TWAD Board.**
- 1.2.4 After taking over of the CWSS for maintenance, the Contractor is the custodian of the CWSS.
- 1.2.5 After taking over the scheme by the contractor, for any damages to the components of the CWSS made by men, machinery, etc., the contractor is solely responsible for rectification at his own risk and cost, except for damages caused by other line departments under the Government of Tamil Nadu, National Highways and NHAI.
- 1.2.6 After taking over the scheme by the contractor if any illegal connection found, it should be reported immediately to the AE/AEE. However, the Contractor should take immediate action to remove such Illegal connections at his risk and cost only. Continual illegal Tapping/Connection will lead to cancellation of agreement, as the maintenance of Pipeline is the sole responsibility of the contractor.
- 1.2.7 Ensure that the water is supplied to all beneficiaries covered under the project as per the earmarked quantity on normal condition.
- 1.2.8 Under all the circumstances, the supply to all beneficiaries including Tail end / critical habitations shall be ensured as per the PART –VI of the Contract table of contents.
- 1.2.9 Should inform every day before 08.00 AM about the pumping status of the scheme from 06.00 AM of previous day to 06.00 AM of present day to the AE/AEE through Whats App and through online entry as per the prescribed format (beneficiary supply details).
- 1.2.10 If Gen-set is available in the scope of contract, Test run of Genset should be carried out for a minimum of 30 minutes per week while in idle condition or as recommended by the manufacturer / directed by TWAD Engineer. The contractor should make necessary arrangement for Diesel / Lube oil required for operating the generator and the related cost will be reimbursed as per actual on production of original bills.
- 1.2.11 In case of failure of electricity during emergency / calamity, the contractor shall take immediate action to restore the electricity by approaching the TANGEDCO authorities. In case of non availability of generators, the Contractor shall engage generators for pumping the Earmarked quantity (MLD) as and when required under approval of the Executive Engineer and the hire charges will be paid as per the rate approved for this case.

1.2.12 The contractor shall submit the operating methodology to carry out in full this contract as per the prevailing guidelines, CPHEEO (Central Public Health & Environmental Engineering Organisation) guidelines and got it approved by the Engineer in charge. The Operating Staff should have the required minimum qualification as the case may be as Electrician with-C- Certificate, Electrician-grade II with ITI, Fitter grade II, Maintenance Assistant as per the requirement of works to be performed. All shall read and write. If the above qualified persons not engaged by Contractor, penalty will be imposed as per Clause.10. of VIII. Special Conditions of Contract.

1.2.13 Must keep a copy of the relevant portions of the latest CPHEEO manual on Operation and Maintenance of Water Supply Systems at work site and carry out the O&M works in accordance to the guidelines prescribed in the Manual.

1.2.14 The Quantity of water supplied to the beneficiaries is the essence of contract, and the contractor is solely responsible for the supplied quantity. The contractor should ensure designed quantity (MLD) of supply to all the beneficiaries as per the scope. Contractor should maintain and furnish register showing the quantity of water delivered to each habitations (as per the Part VI) duly signed by an authorized person / SHG member / OHT Operator/ Panchayat Secretary of the local body concerned and submitted to the Assistant Engineer for preparing the water charges demand by 26th of every month (from 26th of the previous month to 25th of current month).

1.2.15 The Contractor should maintain Pumping quantity register, pump set operation register, Leak & burst register, Consumables register, Electro mechanical repair register, preventive maintenance register, water retaining structure cleaning register etc. in the name of the contractor and the same shall be maintained and signed by the contractor/authorized person and the same shall be furnished during the inspection of TWAD Board Officer. The format for maintaining the above registers shall be got approved from the Executive Engineer in charge.

1.2.16 The Contractor should obtain the invoice / bill for electricity consumed and handover to the Assistant Engineer / Assistant Executive Engineer for onward submission for making payment and the contractor should make arrangements to submission of Cheque / Demand Draft to Electricity Board office without delay.

1.2.17 If Diesel Generator (DG) set is available, it should be maintained in working condition.

- 1.2.18 To attend all the repair works whenever it occurs in the pumping machineries, Electro-mechanical items immediately under intimation to TWAD Board Engineers as all the works are included in the essence of contract.
- 1.2.19 The contractor should attend the Leaks and Bursts whenever it occurs, within the stipulated period, and necessary photos shall be taken before during and after attending the works with latitude / longitude and the same must be uploaded online in the link [http://192.9.145.230/maint- projects/frmLeakBurst.aspx](http://192.9.145.230/maint-projects/frmLeakBurst.aspx), through the Assistant Engineer/Assistant Executive Engineer concerned.
- 1.2.20 For attending the leaks/ burst, the contractor shall procure the minimum quantity of materials and keep advance stock which may require to attend all types of maintenance works at the earliest.
- 1.2.21 All the tools and equipments required for this contract shall be arranged by the Contractor at his own expense.
- 1.2.22 Contractor shall maintain the water meters in good working conditions. Working of all type of Flow Meter / Water meter should be ensured and if any repairs noticed, it should be rectified immediately so as to furnish the exact quantity of water supplied without any dispute. During the rectification period of water meter / flow meter, the quantity of supply will be arrived based on actual pumping hours or by discharge in case of gravity flow. If the flow meter / water meter is not repaired within 2 days, a penalty of Rs. 500/- per day will be levied until rectification.
- 1.2.23 Operate and maintain capacitor and allied switch gear so as to maintain a power factor of not less than 0.90 prescribed by TANGEDCO.
- 1.2.24 The power factor will not decrease or increase suddenly and hence the contractor should monitor it daily. If any decrease in the power factor is noticed, it should be informed to the Departmental Engineers (concerned Assistant Engineer/Assistant Executive Engineer) and rectification to be carried out by the contractor which will be paid for as per the agreement. Any penalty levied by TANGEDCO for non-maintenance of power factor, will be recovered from the Contractor.
- 1.2.25 Mandatory Regulations prescribed by CEIG and Inspector of Factories shall be followed without any lapse.
- 1.2.26 To maintain periodically plant and machineries, pump room and it's premises, Pumping main and valves and Treatment Units etc. as per the list detailed in clause 1.3 and as per the Schedule of Maintenance detailed in clause 1.4 of Part 1.
- 1.2.27 Each station should be provided with complete set of tools and equipments required for maintenance as listed in Part 1.

- 1.2.28 To adhere to safety measures as stipulated in Part 1.
- 1.2.29 Recording Register including starting/stopping time of the pump sets etc as per standard format.
- 1.2.30 Check the temperature/Noise of Running units and control panel
- 1.2.31 Provide gland packing for the pumps, sluice valve etc. whenever required to avoid leakage of water.
- 1.2.32 The Contractor shall report any problem in the motor and pumps, electrical main boards and fixtures etc, leaks and burst if any occurred in the pipe line, leaks and repairs in valves and any other damages caused to the water supply system, shall be brought to the notice of the Assistant Engineer/ Assistant Executive Engineer, immediately and take immediate action for the rectification and restoration of water supply within the prescribed time limit. Necessary entries shall be made in the corresponding register.
- 1.2.33 Any alternation/additions if needed to the existing arrangements, both in electrical and mechanical installations shall be attended only after proper approval from the Executive Engineer.
- 1.2.34 The contractor shall obtain the license from the competent authority of Labour Department in the respective District.
- 1.2.35 The contractor shall provide Technical Supervisor with minimum technical qualification of Diploma/Degree in Civil/Electrical/Mechanical Engineering as per the value of work mentioned under Annexure – VII.
- 1.2.36 The Contractor should also provide photo identity card to his own labour at his own cost mentioning the name and category along with the name of the Contractor without mentioning the TWAD Board name and Logo, etc..
- 1.2.37 If any labour is found to be unfit or disobedient to the instructions given by the TWAD Board officers, they shall be replaced by the contractor immediately.
- 1.2.38 The contractor shall provide required safety equipments to the labours engaged by him.
- 1.2.39 Operation on specified shifts / day as per labour law and ensuring that back up teams are available to take over during Sundays, Public Holidays and in the event of regular Operator's absence including watch and ward.
- 1.2.40 Operate and maintain pumping equipment with skilled staff with required qualifications and experience so as to safeguard the equipments against single phasing, earth fault, phase reverse etc., in power supply as well as their personal safety.

1.2.41 The contractors shall be fully responsible for operating and maintaining the scheme in a safe & secure manner.

1.2.42 The contractor shall obey all the provisions of various laws including Labour Laws as applicable to them. If the Board suffer any loss what so ever of nature, monetary or otherwise, as a result of direct or indirect action or inaction of the contractor in failing to comply with or not properly complying with any law, rules, regulations, notifications, instructions, circulars, G.Os, Board Proceedings, etc. issued by the Government or Board or any other authority as applicable to them as mandated by the law or otherwise, the said laws shall be computed in terms of money and recovered from the contractor.

1.2.43 The contractor shall necessarily obtain the due license from the Labour Department under the provisions of "Abolition of Contract Labour Act".

If the workers sustain any injury/death while on engagement, the compensation if any claimed by such workers will have to be paid only by the contractor himself and for which the contractor shall take appropriate insurance policies for the labourers who are engaged by him. The contractor shall be sole and full responsible for operating and maintaining the scheme in a safe & secure manner.

The contractor shall give an affidavit of undertaking of his own that any of the workers engaged by him will not claim any demand for regularization of work from the TWAD Board under any circumstances. The affidavit should be typed in Rs.100/- non judicial stamp paper and executed before the Notary Public.

The contractor shall give an undertaking that they will get implead in any of the litigation proceeding in the Jurisdictional Courts, initiated by his labourers against the TWAD Board and indemnify the claim made by the workers.

The contractors shall abide all the Rules and Regulations as stipulated in the Labour Laws in India with regard to payments to be made to the workers.

1.3 List of equipments, installations, structures, pipelines, appurtenances etc., to be operated and maintained under this contract.

Sl. No.	Name of the equipments, installations, structures, pipelines, appurtenances etc., to be operated and maintained along with the details of specifications such as type, make, HP, Head, discharge, capacity length, size and other relevant details such as hours of pumping, pressure, quantity & quality of water, etc.	Quantity	Location
As enclosed in Volume-5 “ List of Equipments”			

1.4 Schedule of Maintenance

Item No.	Description of work	Daily	Weekly	Fort-nightly	Monthly
1	Pump House:				
1.1	Cleaning of site	<input type="checkbox"/>			
1.2	Cleaning of Pump House including Doors and Windows	<input type="checkbox"/>			
1.3	Cleaning of Panel Room, D.G. room etc.	<input type="checkbox"/>			
1.4	Check pump is operational	<input type="checkbox"/>			
1.5	Change over to standby pumps	<input type="checkbox"/>			
1.6	Record hours run	<input type="checkbox"/>			
1.7	Check operation of air release pipe	<input type="checkbox"/>			
1.8	Lubricating of Rolling Shutters			<input type="checkbox"/>	
1.9	De-weeding of Pump Room premises and removal of cob webs etc in the Pump Room.				<input type="checkbox"/>
2	H.T.Structure, Transformer yard and Transformers:				
2.1	Cleaning of transformer yard, removal of grass and plants	<input type="checkbox"/>			
2.2	Check up and water the earth pits		<input type="checkbox"/>		
2.3	Megger – earth resistance check in the earth pits				<input type="checkbox"/>
2.4	Check and operate the AB switch in the structure for its smooth operation and replace contacts if necessary		<input type="checkbox"/>		
2.5	Check up dropout fuses and H.G. fuses and replace if necessary	<input type="checkbox"/>			
2.6	Check up insulators and lightning arrestor in the structure and replace if necessary			<input type="checkbox"/>	
2.7	Check the transformer for any leakage of oil and top up if necessary		<input type="checkbox"/>		
2.8	Check the temperature of transformer oil from dial thermometer and record		<input type="checkbox"/>		
3	H.T. Panel:				
3.1	Clean the panel externally and internally using blower	<input type="checkbox"/>			

3.2	Carryout visual check of observe over all condition of the breakers and clean the breakers thoroughly	<input type="checkbox"/>			
3.3	Grease/Oil joints and sliding surfaces			<input type="checkbox"/>	
3.4	Check the internal connections			<input type="checkbox"/>	
3.5	Check the operations of doors and conditions of door gasket			<input type="checkbox"/>	
3.6	Check Volt Meter, Ammeter etc. in the panel for its working and replace if necessary	<input type="checkbox"/>			
3.7	Check all the indicator lamp and control fuses and replace if necessary	<input type="checkbox"/>			
3.8	Check the operation of relays			<input type="checkbox"/>	
4	LT Panel :				
4.1	Clean the panel externally and internally using blower	<input type="checkbox"/>			
4.2	Check all the connections for tightness			<input type="checkbox"/>	
4.3	Check the contacts switches for tightness and apply petroleum jelly if necessary			<input type="checkbox"/>	
4.4	Check Volt Meter Ammeter and respective P.T. and CTS for its working and connection	<input type="checkbox"/>			
4.5	Check all the indicator lamp bulbs and fuses and replace if necessary		<input type="checkbox"/>		
4.6	Check operation of all switches and bush buttons		<input type="checkbox"/>		
5	CAPACITORS:				
5.1	Check all the capacitors for oil leakage if any	<input type="checkbox"/>			
5.2	Clean the insulator with dry cloth and check the connections for tightness			<input type="checkbox"/>	
5.3	Check the fuses and meggar the units?				<input type="checkbox"/>
6	MOTORS:				
6.1	Clean the motor terminal box, check the cable connection to tightness	<input type="checkbox"/>			
6.2	Check body of the motor for firm connection			<input type="checkbox"/>	

6.3	Check the foundation bolt and nut for tightness	<input type="checkbox"/>			
6.4	Check normal sound and vibration	<input type="checkbox"/>			
6.5	Check the bearing grease and replace if necessary				<input type="checkbox"/>
6.6	Check air cooling fan for vibration and noise				<input type="checkbox"/>
6.7	Check meggar test for windings and earth				<input type="checkbox"/>
6.8	Cleaning of motor slip ring, carbon brush, contacts and replace if necessary		<input type="checkbox"/>		
7.0	STARTERS AND OCB				
7.1	Clean the starter and check up the cable connection	<input type="checkbox"/>			
7.2	Check contacts and replace if necessary		<input type="checkbox"/>		
7.3	Check for cable connection		<input type="checkbox"/>		
7.4	Check for OLR and No volt coil		<input type="checkbox"/>		
7.5	Check the level of transformer oil in the OCB and top up if necessary			<input type="checkbox"/>	
8.0	MAIN PUMPS				
8.1	Outside Cleaning	<input type="checkbox"/>			
8.2	Check Bearing Temperature	<input type="checkbox"/>			
8.3	Check & Top up Bearing grease or replace grease			<input type="checkbox"/>	
8.4	Check gland for leak and add gland layer if required	<input type="checkbox"/>			
8.5	Replace gland packing completely				<input type="checkbox"/>
8.6	Check foundation nuts and bolts for tightness and rusting		<input type="checkbox"/>		
8.7	Check inspection covers and check condition of impeller				<input type="checkbox"/>
8.8	Check the pressure and pressure gauges on suction and delivery side	<input type="checkbox"/>			
8.9	Clean the pump pit and pump floor	<input type="checkbox"/>			

8.10	Check for coupling Bolts and nuts, coupling tyre and replace the tyre if required		<input type="checkbox"/>		
8.11	Check for vibration and noise of the pump	<input type="checkbox"/>			
8.12	Pump out leaked water from the pump pit	<input type="checkbox"/>			
8.13	Check the condition of bearing oil and replace if required			<input type="checkbox"/>	
9	SUMP PUMP				
9.1	Check the pump for operation	<input type="checkbox"/>			
9.2	Check the coupling and replace if necessary			<input type="checkbox"/>	
9.3	Clean the starter panel externally and internally	<input type="checkbox"/>			
9.4	Check the fuses and contacts, apply petroleum jelly if necessary		<input type="checkbox"/>		
9.5	Check the foot valve and replace if necessary	<input type="checkbox"/>			

Item No.	Description of work	Daily	Weekly	Fort-nightly	Monthly
10	Diesel Generator Set, Battery and Emergency light:				
10.1	Clean the Battery, top up, distilled water in the battery if necessary	<input type="checkbox"/>			
10.2	Remove the connection of battery terminals, clean thoroughly and reconnect after applying petroleum jelly		<input type="checkbox"/>		
10.3	Clean the emergency lights internally and externally	<input type="checkbox"/>			
10.4	Check the light, indicator lamp for its proper working and attend if necessary		<input type="checkbox"/>		
10.5	Check fuel level in the diesel tank of DG set and top up if necessary		<input type="checkbox"/>		
10.6	Check engine oil level in the D.G. set and add if necessary			<input type="checkbox"/>	<input type="checkbox"/>
11	OHT CRANES:				
11.1	Carry out thorough cleaning of crane including girders, trolley, platform other equipments and control panels			<input type="checkbox"/>	
11.2	Check all the cable connections for tightness		<input type="checkbox"/>		
11.3	Check contacts and fuses and replace if necessary		<input type="checkbox"/>		
11.4	Inspect gearbox for any leakage of oil				<input type="checkbox"/>
11.5	Check the connection of limit switch				<input type="checkbox"/>
11.6	Check panels internally and externally and apply petroleum jelly if required				<input type="checkbox"/>
11.7	Check the rope and apply grease if required				<input type="checkbox"/>
12	SUCTION & DELIVERY VALVES AND ACTUATOR:				
12.1	Check the condition of gland packing and tighten or replace if necessary	<input type="checkbox"/>			

Item No.	Description of work	Daily	Weekly	Fort-nightly	Monthly
12.2	Check actuator gear box for leakage		<input type="checkbox"/>		
12.3	Check the condition of limit switches			<input type="checkbox"/>	
12.4	Check the condition of oil and grease, replace if necessary			<input type="checkbox"/>	
12.5	Check the bolts and nuts for tightness			<input type="checkbox"/>	
12.6	Check cable terminals at motor terminal box of actuator			<input type="checkbox"/>	
12.7	Check clutch and gear arrangement for manual operation				<input type="checkbox"/>
12.8	Apply grease to the spindle if necessary			<input type="checkbox"/>	
12.9	Check for free movement			<input type="checkbox"/>	
13	PIPELINE:				
13.1	Check the pumping main, branch pumping main, feeder main for any leak /burst /damage	<input type="checkbox"/>			
14.0	VALVES:				
14.1	Check the operation of non-return valve	<input type="checkbox"/>			
14.2	Check the disc for its smooth opening and closing operation		<input type="checkbox"/>		
14.3	Check the sluice valves	<input type="checkbox"/>			
14.4	Check the air valves	<input type="checkbox"/>			
14.5	Check the scour valves				<input type="checkbox"/>
15	SUMP:				
15.1	Check the cleaning				<input type="checkbox"/>

1.5 Equipments and tools to be made available at each pumping station

Sl. No.	Description	Set/no.
1	Ultrasonic Flow detector	1 set
2	Double end spanner (6 mm to 32 mm)	1 set
3	Screw driver (6", 8", 12")	1 set
4	Pipe wrench (14", 18", 24")	1 set
5	Cutting pliers	1 set
6	Long nose pliers	1 no.
7	Hammer (2 Kgs)	1 no.
8	Test lamp with 15m wire	1 no.
9	Megger (1000 V)	1 no.
10	Multimeter	1 no.
11	Tong tester	1 no.
12	Hacksaw frame with 3 nos. blade	1 no.
13	Spade (Manwetty)	2 nos.
14	Crow bar	1 no.
15	Sickles	2 nos.
16	Ring spanner (6mm to 32mm)	1 set
17	Caution Board (Men at work)	1 no.
18	Grass cutter	1 no.
19	Country knife	2 nos.
20	Iron chutty	2 nos.
21	Grease gun	1 no.
22	Wheel barrow	1 nos.
23	Torch light with 3 cells	2 nos.
24	Hand blower	1nos.

1.6 SAFETY MEASURES TO BE ADHERED:

1.6.1 All electrical safety equipments like hand gloves, testers and other electrical needs are to be provided by the contractor in the Pumping Stations as stated below:

Sl. No	Name of Equipment	For	
		HT Supply	LT Supply
1	Safety belt with rope	2 nos	1 no.
2	Gas Mask	1 no.	1 no.
3	Shock proof hand gloves (11 KV grade gloves)	1 pair	1 pair
4	Disposable hand gloves	2 pairs	2 pairs
5	Gum boot	2 pairs	1pair
6	Electrical line tester	1 no.	1 no.
7	Earth discharge rod	1 no.	1 no-
8	First Aid Box	1 no.	1 no.
9	Emergency light	1 no.	1 no.
10	Fire Extinguisher	2no.	1no.
11.	Rubber Mat of suitable size	as per requirement	

Note: The above is only an illustrative minimum list. The contractor must note that it is their responsibility to ensure the lives and safety of the workers employed by them. The premises should be maintained as per CEIG norms and requirements. If any failure/ Penalty due to non adherence of CEIG norms will have to be borne by the contractor. Towards this end, all the equipments of appropriate specifications should be procured and made available to the workers in usable conditions throughout the period of contract. Responsibility for any health problem or death will solely rest with contractor.

1.6.2 Only experienced, skilled people have to be employed by the contractor.

1.6.3 Safety belts, ropes, Gas mask, Torch lights, are to be provided by the contractor for laborers who get into wells.

1.6.4 All personnel shall be covered by insurance under workmen compensation Act.

1.6.5 All labour act provisions has to be met with.

1.6.6 Exhibit labels of "SAFETY FIRST"

1.6.7 First Aid Box should made available within the reach of the staff in all Pump Rooms and Booster Stations.

1.6.8 No medicine beyond the expiry date should be kept in the first aid box

1.6.9 First Aid Chart should be displayed in the Pump Rooms.

1.7 Specifications for repairs to Electro Mechanical equipments and for attending

Leaks and burst in pipelines.

1.7.1 Detailed Specification for repair works

- a) **Rectification of Leaks in pipelines**
- b) **Rectification of Bursts in the pipelines**
- c) **Rewinding of Motors**
- d) **Repairs and reconditioning of Pump sets**
- e) **Repairs and reconditioning of Panel Boards**
- f) **Repairs and reconditioning of Sluice valves**
- g) **Repairs and reconditioning of Air Valves**
- h) **Other items of works.**

1.7.2 Payment for repair and rectification works:

The payment shall be made as per the rate quoted by the Contractor in the price schedule for each items of works as specified. As per the actual condition, during repairs and rectification works, if any material / work is omitted as not necessary, then the amount of such items shall be deducted based on the rate / cost in the price bid.

1.7.3 Payment for supply, delivery and utilization of consumables

The items mentioned in the price bid under the supply and delivery of consumables for various categories of works shall be paid as per the rate quoted in the bid. These consumables are to be utilized during regular O&M works, preventive maintenance and attending minor repairs and shall be carried out by the operating staff and no additional payment will be made.

1.8. Formats for Registers to be maintained by the contractor at site

1.8.1 Leak/bursts Register

SI.No	LS/Location at which leak/burst occurred	Reasons	Whether repeated occurrence or not	Size of main	Date of occurrence of leak/burst	Date and Time Information to the Assistant Engineer Concerned	Date of Inspection Field Engineer	Instruction issued	Date of rectification		Materials used for rectification
									Start	Finish	
1	2	3	4	5	6	7	8	9	10	11	12

1.8.2 Pump set, Panel Board Repair Register

SI.No	Location and Details of Pump set	Type of repair and reasons	Whether repeated occurrence or not	Date of Occurrence of Repair	Date and Time Information to the Assistant Engineer Concerned	Date of Inspection Field Engineer	Instruction issued	Date of rectification		Materials used for rectification
								Start	Finish	
1	2	3	4	5	6	7	8	9	10	11

1.8.3 Valves inspection and rectification Register

SI.No	No. of Sluice Valves/ Scour Valves inspected	No. of minor leak in any Valves	No. of minor leaks attended Valves	No. of gland Packing/ applying grease in Valves	No. of defective Valves still to be attended

1.8.4 Log Book Formats for Pump set Operations, Genset Operation , etc., shall be included and specified by the Tender Calling Authority.

1.9 Uploading of data in Online Entry Formats in <http://192.9.145.230/maint-project/frm Leak Burst.aspx>,

1.9.1 Online Entry Formats For Leak and Burst Details

SI.no	Leak ID	Project	Reach	Location	Date of Leak/Burst	Latitude	Longitude	Pipe Material	Diameter (mm)	Class of Pipe	Reason	Remarks

1.9.2 Online Entry Formats For Pump set repair

SI.No	Component	Location of Pump set	Pump set type	Main/Stand by	Discharge in LPM	Head in M	HP of Pump set	Erection Year	Pump set Serial No. (As Mentioned in Name Plate)	Reason for Pump set Repair	Component of Pump set/ Panel Board/ Cable under Repair	Date of Repair Occurred	Date of repair rectified and erected	Remark

1.9.3. Other formats prescribed during contract period, the Contractor shall have to carry out the online entry for such formats also.

PART II

PAYMENT MODE FOR THE CONTRACTOR

S.no	Contents	Page no
2.1.	Measurement and Bill	
2.2.	Quantification of value of work done and Penalty	
2.3.	Payment for the value of work	

2.1 Measurement and Bill:

The payment to the contractor will be made based on the following basis.

2.1.2 Bill Submission:

2.1.2.1 The contractor should submit the O & M bills once in a month in the M.Book format with proper records enclosed i.e., Pumping quantity register, ESI, EPF details, Leak & burst register, Consumables register, Electro mechanical repair register and sump cleaning etc .

2.1.2.2. Based on the bill submitted by the Contractor the Assistant Engineer shall prepare and submit the bills in relevant forms after deducting any penalty imposed towards the work as the case may be.

2.2 Quantification of value of work done:

2.1.2.1 The quantity of water drawn/supplied will be calculated monthly, based on the quantity of water supplied daily.

2.1.2.2 If the contractor fails to effect the supply of earmarked quantity of water to the beneficiaries under the scope of this contract, unless and otherwise due the reasons mentioned in clause 34. Of VIII. Special Conditions of Contract, then 90% of the payments will be made proportionately (Initial, Intermediate and Tail End beneficiaries as finalised by the Executive Engineer as below:

"Bill Claim Amount for supply based portion of BOQ / Agreement =

$$90\% \times (\text{BOQ or Agreement value for the reaches concerned}) \times ((\text{served Quantity in KL}) / (\text{Earmarked Quantity in KL}))"$$

If the contractor fails to carry out the Preventive maintenance as per the Schedule of Maintenance listed in the Clause 1.4 of part - I then the payment will be made as below as the case may be:

(i) Daily scheduled activities not done fully	: (10 %)
(ii) Weekly scheduled activities not done fully	: (5 %)
(iii) Fortnightly scheduled activities not done fully	: (2.5 %)
(iv) Monthly scheduled activities not done fully	: (2.5 %)
Total :	(20 %)

The following formula will be adopted for making payment to each of the above four category in case of failure in schedule of Maintenance in that category:

"Bill Claim Amount for supply based portion of BOQ / Agreement =

$$90\% \times (\text{BOQ or Agreement value for the schedule of Maintenance as per clause 1.4 of part I}) \times ((\% \text{ of schedule of Maintenance done for four category in total} / 20\%))"$$

For attending the repair works in Gate Valves, Sluice Valves, air valves, Non Return Valves, Scour Valves etc., it should be completed within **24** hours.

2.2.3 Penalty:

2.2.3.1 The transmission losses due to leaks or burst in pipeline, valves, and other installations, over flow of sumps during power failure should not exceed 7% of the quantity to be supplied calculated on monthly basis. If the transmission losses in the said situations exceed 7% as calculated above shall be Rs.150 per KL of such exceeded quantity.

2.2.3.2 In the case of wastage of water by over flow of sumps / OHTs due to failure on the part of contractor shall be Rs.150 per KL of such over flown/ wasted water.

2.2.3.3 If any damage caused to scheme components, damage shall be rectified immediately by the contractor at his own cost. Penalty shall also be imposed for the default caused as per relevant clauses of this contract. If defect is not duly rectified by the contractor, the cost will be recovered as determined by TWAD Board including all escalations and losses.

2.2.3.4 If the contractor fails to attend the rectification works of the Electro mechanical items, cleaning the sumps etc a fine will be imposed as decided by the Executive Engineer depending on the value of such repair works / cleaning of sump works.

2.2.3.5 If the contractor fails to ensure the required residual chlorine at all delivery points including the tail end, a penalty will be imposed at as per clause of 7 of VIII Special condition of contract under the scope of this contract.

2.3 Payment for the value of work:

Payment shall be made in stages for each month as envisaged under:

Payment for milestones for Schedule of prices

Milestone	Payment in % of each item	
	Stage	Total
<ul style="list-style-type: none"> Upon completion of the work / activity on monthly basis 	95%	95%
<ul style="list-style-type: none"> Upon issue of Taking Over certificate of Operation and Maintenance of the works 	5%	100%

Category	As mentioned in PART-VI	Payment Value
A	At Head Woks / Treatment Plant / Tapping Point	20% of the Agreement value for Schedule A.1 of BOQ.
B	Completion of Preventive Maintenance and schedule of Maintenance as per Clause 1.4 in Part I	20% of the Agreement value for Schedule A.1 of BOQ.
C	Initial Beneficiaries	20% of the Agreement value for Schedule A.1 of BOQ.
D	Intermediate Beneficiaries	20% of the Agreement value for Schedule A.1 of BOQ.
E	Tail end Beneficiaries	20% of the Agreement value for Schedule A.1 of BOQ.

Subject to the condition that the payment will be made as per clause 43.1 to the completion of the above work for the schedule A1 of BOQ.

Payment for the value of work completed in a satisfactory manner as per agreement will be paid. However, 5% (Five percent) of the value of work completed as per agreement will be withheld (as retention amount) in every part payment. Out of 5% (five percent) of bill amount already withheld in the part bills, 2½ % will be released in the final bill and the remaining 2½ % (two and half percent) along with the Performance Security deposit will be released after satisfactory completion of defect liability period of 3 months. Every payment will be made after production of proof of evidence of making payment towards ESI and EPF.

However the percentage of payment to be withheld for effective performance of contract shall not exceed 10% of the total value of the contract.

Part III

ROLE OF TWAD BOARD

1. A joint inspection will be made by TWAD Board with the contractor or his representative before handing over of the CWSS / WSS for operation and maintenance.
2. The Executive Engineer or his Authorized representative shall furnish the salient details, components and flow diagram of the CWSS to the contractor along with the list of beneficiaries covered under the scope of this CWSS and the earmarked quantity required to be supplied to those beneficiaries. (PART –VI)
3. The field officers / Assistant Accounts Officers / Executive Engineers should ensure that all the statutory requirements as per the license issued by the competent authority and all the requirements of the Contract Labour (Regulation & Abolition) Act have been complied with by the contractor and a certificate to that effect may be directed to be incorporated by the concerned officer along with the running bills of the contractor, when the bill is sent for passing / sanctioning before the competent authority.
4. Power consumption charges will be paid by TWAD Board. However if penalty is imposed by the TANGEDCO due to reduction in maintaining the Power Factor, it will be recovered from the contractor.
5. TWAD Board will arrange to provide the Telephone connection in the premises wherever found necessary and the entire telephone charges including the rent shall be paid by TWAD Board.
6. The cost of Diesel consumption for operating Generators will be reimbursed by TWAD Board to the Contractor on submission of original voucher from the authorized seller.
7. To conduct regular inspection to ascertain the effective functioning of system through Engineers of TWAD Board.
8. Payment will be processed on monthly basis on receipt of bills from the contractor by following Board's procedures.

PART IV

LABOUR LAWS TO BE FOLLOWED

The rights and benefits conferred on the workmen employed by the contractor under the provisions of various Labour Laws are the responsibility of the contractor. The Contractor has to indemnify the TWAD Board in case of loss or any damages. It is the responsibility of the contractor to take insurance policy under Workmen's Compensation Act, 1923 for each labour engaged by the contractor. The Contractor will be responsible for any deficiency of safety measures to be adhered as stipulated in Annexure D. A Photocopy of the insurance under workmen's compensation Policy should be furnished to the Board. The policies should be kept alive till completion of the contract.

The Contractor shall adhere to following Laws wherever applicable

- 1) Workmen Compensation Act, 1923,
- 2) Payment of wages Act, 1936,
- 3) Industrial Disputes Act, 1947,
- 4) Minimum Wages Act, 1948,
- 5) Factories Act, 1948,
- 6) Employees PF and Miscellaneous Act, 1952,
- 7) Payment of Bonus Act, 1965,
- 8) Payment of Gratuity Act, 1972,
- 9) Equal Remuneration Act, 1979,
- 10) Maternity Benefit Act, 1951,
- 11) Contract Labour(Regulation & Abolition) Act, 1970,
- 12) Industrial Employment (Standing Orders) Act, 1946,
- 13) Trade Unions Act, 1926.
- 14) Child Labour (Prohibition & Regulation) Act, 1986,
- 15) Inter-State Migrant Workmen's(Regulation of Employment &Conditions of Service)Act, 1979.
- 16) The Building and Other Construction workers (Regulation of Employment & Conditions of Service) Act, 1996 and the Cess Act of 1996,
- 17) Employee State Insurance Act, 1982,
- 18) The Tamil Nadu Manual Workers(Regulation of Employment and Conditions of Work)Act, 1982,
- 19) The Bonded Labour System (Abolition) Act, 1976,
- 20) The Employer's Liability Act, 1938.

PART V
SPECIAL CONDITIONS

1. The works which are not covered in the BOQ, but required for this scheme should be done by the contractor whenever required as supplemental works.
2. The Contractor shall pump or deliver additional quantity of water to the beneficiaries during festivals, emergencies, etc as directed by the TWAD Board Officials for which no additional payment will be made under the price schedule (Schedule.A.1.). The consumables for disinfection will be paid as per the rate in the BOQ.
3. If the reporting Data furnished by the Data operator under the Contractor is found to be False / Incorrect, necessary penalty (clause to be adopted) at the rate (as decided by the Executive Engineer) of Rs. 1,000 per instance.
4. Online Entry of daily pumping quantity should be consolidated, cross checked by the Supervisor/Technical Assistant and the data should be updated by the contractor in the TWAD web page in consultation with the section officer.
5. The EB reading should be noted / EB Demand should be received from the respective EB Section Office by the contractor and the same should be reported to the Section Officer, TWAD Board without any omission/delay.
6. Every month, the Water Demand raised should be distributed to the respective beneficiary of the TWAD Board and the acknowledgement of the demand should be reported to the section officer, TWAD Board. Then the Cheque / DD for the respective demand raised should be received from the beneficiaries and submitted to the Section officer, TWAD Board without any omission/delay by the contractor.
7. Contractor shall do watering of plants, trees, grass, etc., in the premises under the scope of this contract.
8. Any public representatives (Panchayat President, Union Chairman, District Chairman, M.L.A, M.P or any other socially responsible approaches) in connection with water supply problems they should be treated courteously and proper reply should be given.
9. No advance payment will be made.
10. Subletting of contract is not allowed under this contract.
11. Transfer of the contract is not permissible on any ground.

Part-VI

LIST OF BENEFICIARIES AND EARMARKED QUANTITY OF WATER TO BE SUPPLIED UNDER THIS CONTRACT.

Note:

- 1) It is the responsibility of the tender calling authority to furnish the details of beneficiaries and quantity of water to be supplied with respect to the scope of the work to be covered under this O&M contract without any omission.
- 2) The details and categorisation of the Initial Reach, Middle Reach and Tail End beneficiaries has to be clearly mentioned so as to process the payment as per the payment conditions.
- 3) Any additional condition necessary shall be included in the tender documents under Special Conditions without detrimental to the interest of Board and the rules in force.

Name of Scheme : Operation and Maintenance of Hogenakkal Water supply and Fluorosis Mitigation Project in Dharmapuri and Krishnagiri Districts for the period of 48 months (From 01.04.2020 to 31.03.2024) – 3rd call - Package IV

SI No	Name of Corporation / Municipality / Town Panchayat/ Union	Name of Panchayat	Name of Habitation	Allotted Qty. as per Scope (Inter) In Litre	Supplied Quantity for the Month of						Monthly Qty.	Total Quantity supplied Annually
					1	2	..	..	..	31	
A	Initial Reach Beneficiaries											
	KARIMANGALAM UNION											
1	KARIMANGALAM	Annamalaihalli	Antherikottai	8207								
2	KARIMANGALAM	Annamalaihalli	Jambooth	12262								
3	KARIMANGALAM	Annamalaihalli	Murukkankottai	4152								
4	KARIMANGALAM	Annamalaihalli	Moosankottai	4152								
5	KARIMANGALAM	Annamalaihalli	BALAMMAN ERI KOTTAI	5457								
6	KARIMANGALAM	Bikkanahally	Bikkanahally	4055								
7	KARIMANGALAM	Bikkanahally	Soodapatty	13161								
8	KARIMANGALAM	Bikkanahally	Mallupatty	10614								
9	KARIMANGALAM	Bikkanahally	Velahalahally	7201								
10	KARIMANGALAM	Bikkanahally	Selanthiampatty	3788								
11	KARIMANGALAM	Bikkanahally	Chinnapaiyankottai	4794								
12	KARIMANGALAM	Bikkanahally	Umaiyan Kottai	4922								
13	KARIMANGALAM	Bikkanahally	Jogiar Kottai	4719								
14	KARIMANGALAM	Bikkanahally	Muthalammanpallam	2878								
15	KARIMANGALAM	Bikkanahally	Ettimarathukuli	4152								
16	KARIMANGALAM	Bikkanahally	Samagollai	6463								
17	KARIMANGALAM	Bikkanahally	Iyyalottipallam	5489								
18	KARIMANGALAM	Bikkanahally	Sambargettu	5725								
19	KARIMANGALAM	Bikkanahally	Velahalahally H	6399								
20	KARIMANGALAM	Bikkanahally	Vellichandai	10614								
21	KARIMANGALAM	Bikkanahally	Selenthianahalli	4558								
22	KARIMANGALAM	Bikkanahally	BIKKIKANAHALLI NEW COLONY	5393								
23	KARIMANGALAM	Bikkanahally	KULLATI KOTTAI	6666								
24	KARIMANGALAM	Bikkanahally	NOSAKUTTAI	3050								
25	KARIMANGALAM	Bikkanahally	THETHUPALLAM ST COLONY	2750								
26	KARIMANGALAM	Jaggasamuthiram	Murukalnatham	16275								
27	KARIMANGALAM	Jaggasamuthiram	Bodarkadu	24385								
28	KARIMANGALAM	Jaggasamuthiram	Maravadi	16275								
29	KARIMANGALAM	Jaggasamuthiram	Samagollabail	10251								
30	KARIMANGALAM	Jaqqasamuthiram	Navatholakoluppu	20330								

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31	KARIMANGALAM	Jaggasamuthiram	Jaggasamudram	29446										
32	KARIMANGALAM	Jaggasamuthiram	Bommanur	16275										
33	KARIMANGALAM	Jaggasamuthiram	Bommanur Cheri	16275										
34	KARIMANGALAM	Jaggasamuthiram	Chinnakodiganahalli	10251										
35	KARIMANGALAM	Jaggasamuthiram	Bendarahalli	14873										
36	KARIMANGALAM	Jaggasamuthiram	Periyakodiganahalli	6195										
37	KARIMANGALAM	Jaggasamuthiram	Koot Road	4152										
38	KARIMANGALAM	Jaggasamuthiram	Karukkanahalli	16114										
39	KARIMANGALAM	Jaggasamuthiram	Karukkanahalli Cheri	21240										
40	KARIMANGALAM	Jaggasamuthiram	Vellichandai	22374										
41	KARIMANGALAM	Jaggasamuthiram	Mullasanahalli	20330										
42	KARIMANGALAM	Jaggasamuthiram	Bikkalanayackanahally	10251										
43	KARIMANGALAM	Jaggasamuthiram	Soodapatty-Part	8207										
44	KARIMANGALAM	Jaggasamuthiram	Soolgunda	10251										
45	KARIMANGALAM	Jaggasamuthiram	Alamarathukottai	8207										
46	KARIMANGALAM	Jaggasamuthiram	BOMMANANURKURAVANUR COLONY	19228										
47	KARIMANGALAM	Jaggasamuthiram	MULLAPUDUR	9512										
48	KARIMANGALAM	Jaggasamuthiram	VERANKOTTAI	8271										
49	KARIMANGALAM	Jittandahalli	Jittandahalli	10251										
50	KARIMANGALAM	Jittandahalli	Naickanur	5157										
51	KARIMANGALAM	Jittandahalli	Chinnatabbai	4152										
52	KARIMANGALAM	Jittandahalli	Periathabbai Colony	7201										
53	KARIMANGALAM	Jittandahalli	Gollapatti	9213										
54	KARIMANGALAM	Jittandahalli	Giddampatty	5596										
55	KARIMANGALAM	Jittandahalli	Chennampatty	4954										
56	KARIMANGALAM	Jittandahalli	Sokkampatti	6195										
57	KARIMANGALAM	Jittandahalli	Jogiarkottai	4152										
58	KARIMANGALAM	Jittandahalli	Rayakottaiyamkottai	4152										
59	KARIMANGALAM	Jittandahalli	Seeran Kottai	5157										
60	KARIMANGALAM	Jittandahalli	Paluthu Kottai	6195										
61	KARIMANGALAM	Jittandahalli	Madhagiri	6195										
62	KARIMANGALAM	Jittandahalli	Kulikadu	5157										
63	KARIMANGALAM	Jittandahalli	Gundur Chickkathimmanur	5157										
64	KARIMANGALAM	Jittandahalli	Dhasambail	7201										
65	KARIMANGALAM	Jittandahalli	Ammasikottai	6195										
66	KARIMANGALAM	Jittandahalli	Nattangalbail	5157										
67	KARIMANGALAM	Jittandahalli	Velampattiyankottai	7404										
68	KARIMANGALAM	Jittandahalli	Kammalankottai	4152										
69	KARIMANGALAM	Jittandahalli	Gundankadu	4152										
70	KARIMANGALAM	Jittandahalli	Thimmarayanahalli	4152										
71	KARIMANGALAM	Jittandahalli	Kothalam	8207										
72	KARIMANGALAM	Jittandahalli	Koolankottai	8410										
73	KARIMANGALAM	Jittandahalli	Erikottai	8303										
74	KARIMANGALAM	Jittandahalli	Gittandahally Koot Road	4152										
75	KARIMANGALAM	Jittandahalli	Chenna Gollapatty	5393										
76	KARIMANGALAM	Jittandahalli	Chennampatty Colony	4152										
77	KARIMANGALAM	Jittandahalli	Sorakkapatty	4954										
78	KARIMANGALAM	Jittandahalli	Mettugollakottai	4590										
79	KARIMANGALAM	Jittandahalli	Chennavaratampatty	12498										
80	KARIMANGALAM	Jittandahalli	Gundukadu Kovilur	8774										
81	KARIMANGALAM	Jittandahalli	Vajirapallam	8507										
82	KARIMANGALAM	Mahendramangalam	Mahendramangalam	21903										
83	KARIMANGALAM	Mahendramangalam	Kandagabail	10251										
84	KARIMANGALAM	Mahendramangalam	Mathankottai	4355										
85	KARIMANGALAM	Mahendramangalam	Kathirampatti	12294										
86	KARIMANGALAM	Mahendramangalam	Oddahalli	9213										
87	KARIMANGALAM	Mahendramangalam	Oddahalli Cheri	8806										
88	KARIMANGALAM	Mahendramangalam	Poothipatty	9181										
89	KARIMANGALAM	Mahendramangalam	Boyar Salai	9149										
90	KARIMANGALAM	Mahendramangalam	Seengeri	21336										
91	KARIMANGALAM	Mahendramangalam	Veerasanur	19731										
92	KARIMANGALAM	Mahendramangalam	Seenur	4355										
93	KARIMANGALAM	Mahendramangalam	Kudiyana Theru	4794										
94	KARIMANGALAM	Mahendramangalam	Bolgansalai	4794										
95	KARIMANGALAM	Mahendramangalam	Mahendramangalamcolony	12765										
96	KARIMANGALAM	Mahendramangalam	KATHIRAMPATTI	4858										

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162	SHOOLAGIRI	Banganahalli	Bogipuram	20330										
163	SHOOLAGIRI	Banganahalli	Goolium	19164										
164	SHOOLAGIRI	Banganahalli	Kuttatti	14606										
165	SHOOLAGIRI	Banganahalli	Alamarathupatti	8207										
166	SHOOLAGIRI	Banganahalli	Masaganapalli	4152										
167	SHOOLAGIRI	Chennapalli	Chennapalli	13867										
168	SHOOLAGIRI	Chennapalli	Gollapalli	14306										
169	SHOOLAGIRI	Chennapalli	Kooraganapalli	16478										
170	SHOOLAGIRI	Chennapalli	Sundagiri	11085										
171	SHOOLAGIRI	Chennapalli	Bandarakuttai	18318										
172	SHOOLAGIRI	Chennapalli	Murukkalapalli	16275										
173	SHOOLAGIRI	Chennapalli	Karanapalli	4590										
174	SHOOLAGIRI	Chennapalli	Kondampatti	16007										
175	SHOOLAGIRI	Chennapalli	Karaganapalli	17120										
176	SHOOLAGIRI	Chennapalli	Periapallam	16414										
177	SHOOLAGIRI	Chennapalli	Chinna Chennapalli	9919										
178	SHOOLAGIRI	Chennapalli	Errappanbail	9042										
179	SHOOLAGIRI	Chennapalli	Medupalli Kadu	16414										
180	SHOOLAGIRI	Chennapalli	Elasamakanapalli	16478										
181	SHOOLAGIRI	Chennapalli	Medupalli	13632										
182	SHOOLAGIRI	Enusonai	Enusonai	9951										
183	SHOOLAGIRI	Enusonai	Chinnalangiri	15472										
184	SHOOLAGIRI	Enusonai	Unichetti	7404										
185	SHOOLAGIRI	Enusonai	Perialangiri	7704										
186	SHOOLAGIRI	Enusonai	Kurumakuttai	4451										
187	SHOOLAGIRI	Enusonai	Chinnagorakurukki	3852										
188	SHOOLAGIRI	Hosahalli	Hosahalli	18318										
189	SHOOLAGIRI	Hosahalli	Anjalani	16211										
190	SHOOLAGIRI	Hosahalli	Kottur	14071										
191	SHOOLAGIRI	Hosahalli	Keelmorasapatti	18393										
192	SHOOLAGIRI	Hosahalli	Melmorasapatti	14702										
193	SHOOLAGIRI	Hosahalli	Srinivasapuram	12262										
194	SHOOLAGIRI	Hosahalli	Madhupuram	5692										
195	SHOOLAGIRI	Hosahalli	Giddampatti	4259										
196	SHOOLAGIRI	Hosahalli	Guttur	3413										
197	SHOOLAGIRI	Hosahalli	Sandoovankottai	4259										
198	SHOOLAGIRI	Immidinaickenpalli	Immidinaickenpalli	13632										
199	SHOOLAGIRI	Immidinaickenpalli	Gummanur	11856										
200	SHOOLAGIRI	Immidinaickenpalli	Sinakanapalli	9448										
201	SHOOLAGIRI	Immidinaickenpalli	Karagur	9009										
202	SHOOLAGIRI	Immidinaickenpalli	Pulirasi	16007										
203	SHOOLAGIRI	Immidinaickenpalli	Ramapuram	9009										
204	SHOOLAGIRI	Immidinaickenpalli	Sorakayalapalli	8207										
205	SHOOLAGIRI	Immidinaickenpalli	Periabedapalli	13065										
206	SHOOLAGIRI	Immidinaickenpalli	Chinnabedrapalli	15472										
207	SHOOLAGIRI	Immidinaickenpalli	Attukarankottai	5061										
208	SHOOLAGIRI	Immidinaickenpalli	Vettrampatti	7437										
209	SHOOLAGIRI	Immidinaickenpalli	Devarkutlapalli	12262										
210	SHOOLAGIRI	Immidinaickenpalli	Devarkutlapalli	12262										
211	SHOOLAGIRI	Immidinaickenpalli	Baljanagettu	4152										
212	SHOOLAGIRI	Immidinaickenpalli	Ramnagar	4152										
213	SHOOLAGIRI	Melumalai	Melumalai	19699										
214	SHOOLAGIRI	Melumalai	Melumalai-H	16382										
215	SHOOLAGIRI	Melumalai	Abbasukottai	5029										
216	SHOOLAGIRI	Melumalai	Bothagettu	5029										
217	SHOOLAGIRI	Melumalai	Periabikkanapalli	14905										
218	SHOOLAGIRI	Melumalai	Errandapalli	26429										
219	SHOOLAGIRI	Melumalai	Chinna Errandapalli	18126										
220	SHOOLAGIRI	Melumalai	Mallasandiram	13429										
221	SHOOLAGIRI	Melumalai	Balakandarayanadurgam	21207										
222	SHOOLAGIRI	Melumalai	Andiappankottai	6463										
223	SHOOLAGIRI	Melumalai	Chinnaguthipala	16382										
224	SHOOLAGIRI	Melumalai	Periakuthipala	19966										
225	SHOOLAGIRI	Melumalai	Samalpallm	12326										
226	SHOOLAGIRI	Melumalai	Moopankottai	6431										
227	SHOOLAGIRI	Melumalai	Beeripalli	20533										
228	SHOOLAGIRI	Melumalai	Venkatappankottai	10251										

229	SHOOLAGIRI	Melumalai	Nattappankottai	3852									
230	SHOOLAGIRI	Melumalai	Pandappan Nagar	4055									
231	SHOOLAGIRI	Samanapalli	Samanapalli	27638									
232	SHOOLAGIRI	Samanapalli	Marandapalli	7437									
233	SHOOLAGIRI	Samanapalli	Nanjanatti	8207									
234	SHOOLAGIRI	Samanapalli	Bangarunatham	13065									
235	SHOOLAGIRI	Samanapalli	Puram Dinna	7736									
236	SHOOLAGIRI	Samanapalli	Bellatti	16713									
237	SHOOLAGIRI	Samanapalli	Kempeeranapalli	5029									
238	SHOOLAGIRI	Samanapalli	Ramapuram	11224									
239	SHOOLAGIRI	Shoolagiri	Shoolagiri	109333									
240	SHOOLAGIRI	Shoolagiri	Alagubai	12326									
241	SHOOLAGIRI	Shoolagiri	Chinnaalagubai	9042									
242	SHOOLAGIRI	Shoolagiri	Krishnapalayam	22641									
243	SHOOLAGIRI	Shoolagiri	Chinnakrishnapalayam	11053									
244	SHOOLAGIRI	Shoolagiri	Chinnar	30142									
245	SHOOLAGIRI	Shoolagiri	Thekkalapalli	17816									
246	SHOOLAGIRI	Shoolagiri	Kamanakkenpet	16649									
247	SHOOLAGIRI	Shoolagiri	Kolumoor	4355									
248	SHOOLAGIRI	Shoolagiri	Doddi	4055									
249	SHOOLAGIRI	Shoolagiri	Kamanackenpatty	4055									
250	SHOOLAGIRI	Shoolagiri	Manikankottai	4259									
251	SHOOLAGIRI	Shoolagiri	Palavathimmanapalli	4055									
252	SHOOLAGIRI	Thiyagarasanapalli	Thigarasanapalli	24289									
253	SHOOLAGIRI	Thiyagarasanapalli	Chinnathiyagarasanapalli	26429									
254	SHOOLAGIRI	Thiyagarasanapalli	Nallaralapalli	20330									
255	SHOOLAGIRI	Thiyagarasanapalli	Madarsanapalli	24824									
256	SHOOLAGIRI	Thiyagarasanapalli	Doddi	5029									
257	SHOOLAGIRI	Thiyagarasanapalli	Beppalapalli	5489									
258	SHOOLAGIRI	Thiyagarasanapalli	Sigarapalli	12423									
259	SHOOLAGIRI	Thiyagarasanapalli	Beerpalayam	12059									
260	SHOOLAGIRI	Thiyagarasanapalli	Periyamothugalapalli	15141									
261	SHOOLAGIRI	Thiyagarasanapalli	Chinnamothugalapalli	9919									
262	SHOOLAGIRI	Thiyagarasanapalli	Omathepalli	28601									
263	SHOOLAGIRI	Thiyagarasanapalli	Soolepalli	8207									
264	SHOOLAGIRI	Thiyagarasanapalli	Barathipuram	4152									
265	SHOOLAGIRI	Thiyagarasanapalli	Indiranagar	4152									
266	SHOOLAGIRI	Thiyagarasanapalli	Barbar kotta	3649									
267	SHOOLAGIRI	Thiyagarasanapalli	Colony	3649									
268	SHOOLAGIRI	Thiyagarasanapalli	Poramboku Beedu	4259									
269	SHOOLAGIRI	Ullatti	Ullatti	17516									
270	SHOOLAGIRI	Ullatti	Maniankal	12359									
271	SHOOLAGIRI	Ullatti	B.Kothapalli	18318									
272	SHOOLAGIRI	Ullatti	Mookondapalli	8945									
273	SHOOLAGIRI	Ullatti	Ettipalli	40360									
274	SHOOLAGIRI	Ullatti	Thookondapalli	5628									
275	SHOOLAGIRI	Ullatti	Seebam	16275									
276	SHOOLAGIRI	Ullatti	Dam Ebbalam	6195									
277	SHOOLAGIRI	Ullatti	Eri Ebbalam	5029									
278	SHOOLAGIRI	Ullatti	Koil Ebbalam	5029									
279	SHOOLAGIRI	Ullatti	Lakshmipuram	4259									
280	VEPPANAPALLI	Balanapalli	Edipalli	16350									
281	VEPPANAPALLI	Balanapalli	Oddupalli	5093									
282	VEPPANAPALLI	Balanapalli	Sigaralapalli	19699									
283	VEPPANAPALLI	Balanapalli	Balanapalli	28441									
284	VEPPANAPALLI	Balanapalli	Kadayambedu	6195									
285	VEPPANAPALLI	Balanapalli	Kallamur	5157									
286	VEPPANAPALLI	Balanapalli	Beerappan Kottai	8913									
287	VEPPANAPALLI	Balanapalli	Nallahet	10251									
288	VEPPANAPALLI	Balanapalli	Mariyamman Kovil Kottai	4055									
289	VEPPANAPALLI	Bathimadagu	K - Pudur	13300									
290	VEPPANAPALLI	Bathimadagu	Kurulapalli	4558									
291	VEPPANAPALLI	Bathimadagu	Ontur	4152									
292	VEPPANAPALLI	Bathimadagu	KN Podur Basuveshwara Nagar	4858									
293	VEPPANAPALLI	Beemandapalli	Beemandapalli	24086									

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294	VEPPANAPALLI	Beemandapalli	Annanagar	4558															
295	VEPPANAPALLI	Beemandapalli	Oddur	4558															
296	VEPPANAPALLI	Beemandapalli	Thandavarayankottai	4558															
297	VEPPANAPALLI	Beemandapalli	Gollapalli	5329															
298	VEPPANAPALLI	Beemandapalli	Barur	6195															
299	VEPPANAPALLI	Beemandapalli	Puliancheri	21507															
300	VEPPANAPALLI	Beemandapalli	Maregoundaur	4954															
301	VEPPANAPALLI	Beemandapalli	Gollapalli- MelKottai	4055															
302	VEPPANAPALLI	Beemandapalli	Periya Beemandapalli	4451															
303	VEPPANAPALLI	Billanakuppam	Billanakuppam	15408															
304	VEPPANAPALLI	Billanakuppam	Vasanthapalli	16178															
305	VEPPANAPALLI	Billanakuppam	Thalavaipalli	28676															
306	VEPPANAPALLI	Billanakuppam	Bandapalli	4558															
307	VEPPANAPALLI	Billanakuppam	Thippanapalli	13771															
308	VEPPANAPALLI	Billanakuppam	Baleripalli	12829															
309	VEPPANAPALLI	Billanakuppam	Sandanapalli	17687															
310	VEPPANAPALLI	Billanakuppam	Billanakuppam Colony	14306															
311	VEPPANAPALLI	Billanakuppam	Bandapalli Gollakottai	4055															
312	VEPPANAPALLI	Billanakuppam	Jogiar Kottai	4055															
313	VEPPANAPALLI	Billanakuppam	Polupalli	22074															
314	VEPPANAPALLI	Billanakuppam	Vasanthapalli- pabukaran kottai	4055															
315	VEPPANAPALLI	Chennasandiram	Avaganapalli	13300															
316	VEPPANAPALLI	Chennasandiram	Uppugoundanur	4558															
317	VEPPANAPALLI	Chennasandiram	Varagasandhiram	11791															
318	VEPPANAPALLI	Chennasandiram	CHENNASANDIRAM	30752															
319	VEPPANAPALLI	Chennasandiram	Battappanur	10454															
320	VEPPANAPALLI	Chennasandiram	Kondappanayanapalli	12829															
321	VEPPANAPALLI	Chennasandiram	Udungalpudur	4184															
322	VEPPANAPALLI	Chennasandiram	Pandalur	4558															
323	VEPPANAPALLI	Chennasandiram	Viruppasandiram	11791															
324	VEPPANAPALLI	Chennasandiram	Avalanatham	14402															
325	VEPPANAPALLI	Chennasandiram	Bangaldrankottai	4055															
326	VEPPANAPALLI	Chennasandiram	PURAM	8004															
327	VEPPANAPALLI	Chennasandiram	Kottamur	4954															
328	VEPPANAPALLI	Chennasandiram	Bharathipuram	4152															
329	VEPPANAPALLI	Chennasandiram	Gookulkuttai - Parvathi nagr	3413															
330	VEPPANAPALLI	Chennasandiram	Keel Kondappanayanapalli	3948															
331	VEPPANAPALLI	Chennasandiram	Ramurthy Nagar	4451															
332	VEPPANAPALLI	Chennasandiram	Thalapathy Nagar	5093															
333	VEPPANAPALLI	Chinna Manavarana Palli	Jingalur	23711															
334	VEPPANAPALLI	Chinna Manavarana Palli	Chinnamanavaranaipalli	25862															
335	VEPPANAPALLI	Chinna Manavarana Palli	Jeenur	12562															
336	VEPPANAPALLI	Chinna Manavarana Palli	MAMUDIGANAPALLI	17484															
337	VEPPANAPALLI	Chinna Manavarana Palli	Rahim Nagar	8207															
338	VEPPANAPALLI	Chinna Manavarana Palli	Mel Jeenur	4687															
339	VEPPANAPALLI	Chinthagummanapalli	Edrapalli	8913															
340	VEPPANAPALLI	Chinthagummanapalli	Ananthapuram	4055															
341	VEPPANAPALLI	Chinthagummanapalli	Gangoji Kothur	8913															
342	VEPPANAPALLI	Chinthagummanapalli	Jaganathapuram	9919															
343	VEPPANAPALLI	Chinthagummanapalli	Chintha Gummanapalli	13600															
344	VEPPANAPALLI	Chinthagummanapalli	Maudiganapalli	4451															
345	VEPPANAPALLI	Chinthagummanapalli	Saravanapuram	4355															
346	VEPPANAPALLI	Ennegollu	Peria Pulivarasi	17216															
347	VEPPANAPALLI	Ennegollu	Chendrayagooundanur	10786															
348	VEPPANAPALLI	Ennegollu	Karigalnatham	4922															
349	VEPPANAPALLI	Ennegollu	ENNEGOLLU	16446															
350	VEPPANAPALLI	Ennegollu	Ennegollupudur	28334															
351	VEPPANAPALLI	Ennegollu	Kakkanpuram	9448															
352	VEPPANAPALLI	Ennegollu	Vinayagapuram	6602															
353	VEPPANAPALLI	Ennegollu	Kothupalli	4558															

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354	VEPPANAPALLI	Ennegollu	Pattiarikottai	6195										
355	VEPPANAPALLI	Ennegollu	Pannurthoppu	4055										
356	VEPPANAPALLI	Ennegollu	ATTUKARAN KOTTAI	4120										
357	VEPPANAPALLI	Ennegollu	CHINNA PUDUR	3884										
358	VEPPANAPALLI	Ennegollu	GUMMANUR XRD(GOVT.QR	3520										
359	VEPPANAPALLI	Ennegollu	MADAN KOTTAI	3852										
360	VEPPANAPALLI	Ennegollu	MOCHIKANAPALLI	4087										
361	VEPPANAPALLI	Ennegollu	MUTHARAYANKOTTAI	3082										
362	VEPPANAPALLI	Halekundani	Halekundani	16885										
363	VEPPANAPALLI	Halekundani	SEETHAPPAN KOTTAI	4558										
364	VEPPANAPALLI	Halekundani	Nallur	23947										
365	VEPPANAPALLI	Halekundani	Beemaganapalli	5628										
366	VEPPANAPALLI	Halekundani	Hale Krishnapuram	7340										
367	VEPPANAPALLI	Halekundani	Nimmavadi	13268										
368	VEPPANAPALLI	Halekundani	CHAKARAPALAYAM	3552										
369	VEPPANAPALLI	Halekundani	GANDHI NAGAR	3413										
370	VEPPANAPALLI	Halekundani	HALELINGAPURAM	3146										
371	VEPPANAPALLI	Halekundani	THAYAPPANUR	2910										
372	VEPPANAPALLI	Ippiganapalli	Ippiganapalli	10347										
373	VEPPANAPALLI	Ippiganapalli	Kottur	5190										
374	VEPPANAPALLI	Ippiganapalli	Baramellur	6195										
375	VEPPANAPALLI	Ippiganapalli	IPPIGANAPALLI SC COLONY	2611										
376	VEPPANAPALLI	Ippiganapalli	RAJAPPANKOTTAI	2910										
377	VEPPANAPALLI	Kuriyanapalli	Chinnapethalapalli	14606										
378	VEPPANAPALLI	Kuriyanapalli	Periapethalapalli	14873										
379	VEPPANAPALLI	Kuriyanapalli	Chithappanur	7939										
380	VEPPANAPALLI	Kuriyanapalli	Kuriyanapalli	18928										
381	VEPPANAPALLI	Kuriyanapalli	Rajappan Kottai	4890										
382	VEPPANAPALLI	Kodipalli	Periakodipalli	18554										
383	VEPPANAPALLI	Kodipalli	Chinna Kodipalli	10518										
384	VEPPANAPALLI	Kodipalli	Kuttapalli	11353										
385	VEPPANAPALLI	Kodipalli	Seelapalli	17655										
386	VEPPANAPALLI	Kodipalli	KATTUKOTTAI	4794										
387	VEPPANAPALLI	Kodipalli	KUTTAPALLI KOOT ROAD	4184										
388	VEPPANAPALLI	Kundarapalli	Kundarapalli	20437										
389	VEPPANAPALLI	Kundarapalli	Ramapuram	25990										
390	VEPPANAPALLI	Kundarapalli	Chinna Kundarapalli	4087										
391	VEPPANAPALLI	Kundarapalli	Kundarapalli Koot Road	5660										
392	VEPPANAPALLI	Kuppichiparai	Kuppichiparai	43742										
393	VEPPANAPALLI	Kuppichiparai	Kunthapalli	18661										
394	VEPPANAPALLI	Kuppichiparai	Lakkabethanapalli	15440										
395	VEPPANAPALLI	Kuppichiparai	Kuppichiparai Colony	6195										
396	VEPPANAPALLI	Kurubarapalli	A. Kurubarapalli	9748										
397	VEPPANAPALLI	Kurubarapalli	B. Kurubarapalli	5628										
398	VEPPANAPALLI	Kurubarapalli	Ragimanapalli	5393										
399	VEPPANAPALLI	Kurubarapalli	Sikkaripuram	6698										
400	VEPPANAPALLI	Kurubarapalli	Maniyandahalli	13964										
401	VEPPANAPALLI	Kurubarapalli	Bodarpalli	10989										
402	VEPPANAPALLI	Kurubarapalli	Somanathapuram	10818										
403	VEPPANAPALLI	Kurubarapalli	BODARAPALLI MUNISIFF KOTTAI	4120										
404	VEPPANAPALLI	Kurubarapalli	NAGAPPAN NAGAR	3948										
405	VEPPANAPALLI	Kurubarapalli	PEYAPPAN NAGAR	3520										
406	VEPPANAPALLI	Kurubarapalli	RANGAPPAN NAGAR	3285										
407	VEPPANAPALLI	Madepalli	Periasoolamalai	13268										
408	VEPPANAPALLI	Madepalli	Chinna Soolamalai & Madepalli	12155										
409	VEPPANAPALLI	Madepalli	Babashahib Kottai & Ponnappag	5628										
410	VEPPANAPALLI	Madepalli	Ekadachampalli	50012										
411	VEPPANAPALLI	Madepalli	Bandi Kurukki	18019										
412	VEPPANAPALLI	Madepalli	Chinna Kothur Pudur	5093										
413	VEPPANAPALLI	Madepalli	Madepalli	24385										
414	VEPPANAPALLI	Madepalli	Athikonta	20437										
415	VEPPANAPALLI	Madepalli	CHINNA MADEPALLI	5061										
416	VEPPANAPALLI	Madepalli	MADEPALLI AD COLONY	5361										
417	VEPPANAPALLI	Manavarapalli	Kasiriganapalli	8378										

418	VEPPANAPALLI	Manavaranaipalli	Kottaiyur	4055															
419	VEPPANAPALLI	Manavaranaipalli	Singiripalli	14873															
420	VEPPANAPALLI	Manavaranaipalli	Gangamaduvu	19025															
421	VEPPANAPALLI	Manavaranaipalli	Manavaranaipalli	39462															
422	VEPPANAPALLI	Manavaranaipalli	Seeranaipalli	13033															
423	VEPPANAPALLI	Manavaranaipalli	CHINNAMUNIAMMA KOTTAI	4890															
424	VEPPANAPALLI	Manavaranaipalli	MANAVARAPALLI ST COLONY	4794															
425	VEPPANAPALLI	Marasandiram	Marasandhiram	28441															
426	VEPPANAPALLI	Marasandiram	Veeroji Palli	16778															
427	VEPPANAPALLI	Marasandiram	Nedusalai	13835															
428	VEPPANAPALLI	Marasandiram	Naranikuppam	21507															
429	VEPPANAPALLI	Marasandiram	Koralanatham	21240															
430	VEPPANAPALLI	Marasandiram	Thandamariamman Kovilur	7372															
431	VEPPANAPALLI	Marasandiram	VEEROJIPALLI MELKOTTAI	10112															
432	VEPPANAPALLI	Neralagiri	Neralagiri	25894															
433	VEPPANAPALLI	Neralagiri	Kothakrishnapalli	22310															
434	VEPPANAPALLI	Neralagiri	Devarkundani	22074															
435	VEPPANAPALLI	Neralagiri	Chinna Kothur	11888															
436	VEPPANAPALLI	Neralagiri	Ettipalli	28944															
437	VEPPANAPALLI	Neralagiri	Thangadi Kuppam	6099															
438	VEPPANAPALLI	Neralagiri	Paraikottai	14306															
439	VEPPANAPALLI	Neralagiri	Melnerlagiri	19827															
440	VEPPANAPALLI	Neralagiri	Mettupalayam	8507															
441	VEPPANAPALLI	Naduvanapalli	Naduvanapalli	16917															
442	VEPPANAPALLI	Naduvanapalli	Bommidipet	9716															
443	VEPPANAPALLI	Naduvanapalli	Ramachandiram	18928															
444	VEPPANAPALLI	Naduvanapalli	Dasiripalli	18490															
445	VEPPANAPALLI	Naduvanapalli	Melur.H	9448															
446	VEPPANAPALLI	Naduvanapalli	Thattatharai	16713															
447	VEPPANAPALLI	Naduvanapalli	Guruvaddi Podur	16713															
448	VEPPANAPALLI	Naduvanapalli	Paraikottai	4954															
449	VEPPANAPALLI	Naduvanapalli	Mgr Nagar Marapankottai	4590															
450	VEPPANAPALLI	Naduvanapalli	MELUR KOLLAKOTTAI	4890															
451	VEPPANAPALLI	Naduvanapalli	MUTHURANKOTTAI	5660															
452	VEPPANAPALLI	Naduvanapalli	NADUVANAPALLI SC COLONY	12123															
453	VEPPANAPALLI	Naduvanapalli	OTTUKOTTAI	5660															
454	VEPPANAPALLI	Naduvanapalli	PERUMALKOTTAI	5660															
455	VEPPANAPALLI	Naduvanapalli	THADHATHARA COLONY	10518															
456	VEPPANAPALLI	Nachikuppam	Kadavarapalli	24289															
457	VEPPANAPALLI	Nachikuppam	Karakuppam	16649															
458	VEPPANAPALLI	Nachikuppam	Kathiripalli	31084															
459	VEPPANAPALLI	Nachikuppam	Jodukothur	21368															
460	VEPPANAPALLI	Nachikuppam	Nandukondapalli	12326															
461	VEPPANAPALLI	Nachikuppam	Jodukothur Kottavoor	4558															
462	VEPPANAPALLI	Nachikuppam	Nachikuppam	17655															
463	VEPPANAPALLI	Nachikuppam	Panapalli	19164															
464	VEPPANAPALLI	Nachikuppam	Anakal Doddi	4890															
465	VEPPANAPALLI	Nachikuppam	CHINNADHARMAPURI	5297															
466	VEPPANAPALLI	Nachikuppam	NACHIKUPPAM X RD SIV	4451															
467	VEPPANAPALLI	Nachikuppam	PERIASAMYKOTTAI	4858															
468	VEPPANAPALLI	P.K. Pethanapalli	P.K. Pethanapalli	13268															
469	VEPPANAPALLI	P.K. Pethanapalli	Gangasandhiram	32956															
470	VEPPANAPALLI	Sigaramanapalli	Boothimutlu	39697															
471	VEPPANAPALLI	Sigaramanapalli	Ramar Koil Mgr Nagar	8913															
472	VEPPANAPALLI	Sigaramanapalli	K.Kothur	15044															
473	VEPPANAPALLI	Sigaramanapalli	Sigaramanapalli	26162															
474	VEPPANAPALLI	Sigaramanapalli	Thotta Kanavai	33598															
475	VEPPANAPALLI	Sigaramanapalli	BOOTHIMUTLU NEW COLONY	11117															
476	VEPPANAPALLI	Sigaramanapalli	K.KOTHUR IRULAR COLO	5329															
477	VEPPANAPALLI	Sigaramanapalli	METTUPALYAM	5660															
478	VEPPANAPALLI	Sigaramanapalli	SUTHAKUTLU	5660															
479	VEPPANAPALLI	Samanthamalai	Ondiyur	4055															

480	VEPPANAPALLI	Samanthamalai	Rayar Kottai	9009										
481	VEPPANAPALLI	Samanthamalai	Guddur	21207										
482	VEPPANAPALLI	Samanthamalai	Chinna Guddur	4055										
483	VEPPANAPALLI	Samanthamalai	Pachiganapalli	15108										
484	VEPPANAPALLI	Samanthamalai	Vanniar Koilapan Kottai	6367										
485	VEPPANAPALLI	Samanthamalai	Bandapalli Kothur	17687										
486	VEPPANAPALLI	Samanthamalai	Pethampatti	10251										
487	VEPPANAPALLI	Samanthamalai	MATTUMANTHAIKOTTAI	5660										
488	VEPPANAPALLI	Samanthamalai	SIVAJIKOTTAI	5297										
489	VEPPANAPALLI	Thammandrapalli	Thammandrapalli	21539										
490	VEPPANAPALLI	Thammandrapalli	Thimmasandiram	23711										
491	VEPPANAPALLI	Thammandrapalli	Chinna Thammandrapalli	18019										
492	VEPPANAPALLI	Thammandrapalli	Thasappan Kottai	5329										
493	VEPPANAPALLI	Thammandrapalli	Marattipalayam (Damojikottai)	6195										
494	VEPPANAPALLI	Thammandrapalli	Marattipalayam (Damojikottai)	8507										
495	VEPPANAPALLI	Theertham	Theertham	15815										
496	VEPPANAPALLI	Theertham	Chinna Theertham	4558										
497	VEPPANAPALLI	Theertham	Koraldoddi	8175										
498	VEPPANAPALLI	Theertham	Vinayagapuram	4055										
499	VEPPANAPALLI	Theertham	Pudukottai	8207										
500	VEPPANAPALLI	Theertham	Balathippapur	6195										
501	VEPPANAPALLI	Theertham	Pannapalli	3788										
502	VEPPANAPALLI	Theertham	BOYARKOTTAI	4451										
503	VEPPANAPALLI	Theertham	LAKSHMIPURAM	4451										
504	VEPPANAPALLI	Theertham	PALAYATHEERTHAM	7704										
505	VEPPANAPALLI	Veppanapalli	Chinna Bommarasanpalli	14306										
506	VEPPANAPALLI	Veppanapalli	Periya Bommarasanpalli	10754										
507	VEPPANAPALLI	Veppanapalli	Iver Bommarasanpalli	9213										
508	VEPPANAPALLI	Veppanapalli	Boyer Kottai	4055										
509	VEPPANAPALLI	Veppanapalli	Konegoundonur	10786										
510	VEPPANAPALLI	Veppanapalli	Jai Nagar	4558										
511	VEPPANAPALLI	Veppanapalli	Sampanki Kottai	4055										
512	VEPPANAPALLI	Veppanapalli	Undiyalnatham	12626										
513	VEPPANAPALLI	Veppanapalli	Irular Colony	4590										
514	VEPPANAPALLI	Veppanapalli	Veppanapalli	59289										
515	VEPPANAPALLI	Veppanapalli	Dasegoundanur	4355										
516	VEPPANAPALLI	Veppanapalli	Ariyanapalli	13664										
517	VEPPANAPALLI	Veppanapalli	Ariyan Palli (H)	4558										
518	VEPPANAPALLI	Veppanapalli	BOMMIDIPET & SC COLON	17783										
519	VEPPANAPALLI	Veppanapalli	GOUNDANUR	8507										
520	VEPPANAPALLI	Veppanapalli	JABBAR COLONY	18586										
521	VEPPANAPALLI	Veppanapalli	LAKSHMIPURAM	6099										
522	VEPPANAPALLI	Veppanapalli	MOHAMED GHOUSE NAGAR	17783										
523	VEPPANAPALLI	Veppanapalli	NAMAZ NAGAR	18586										
524	THALLY	Anniyalam	Anniyalam	21839										
525	THALLY	Anniyalam	Nagireddipalayam	18254										
526	THALLY	Anniyalam	Seerthimmanetti	16082										
527	THALLY	Anniyalam	Chinnathogarai	7105										
528	THALLY	Anniyalam	Thommarampalayam	3852										
529	THALLY	Anniyalam	Basavarpuram	4120										
530	THALLY	Anniyalam	ANNIYALAM AD COLONY	14167										
531	THALLY	Arasakuppam	Arasakuppam	14873										
532	THALLY	Arasakuppam	Thiagaddralapalli	11652										
533	THALLY	Arasakuppam	Chinna Bannagur	13300										
534	THALLY	Arasakuppam	Bensapalli	16414										
535	THALLY	Arasakuppam	Maragoundanapalli	10818										
536	THALLY	Arasakuppam	Kaligobachandram	43142										
537	THALLY	Arasakuppam	D.Kothanur	21571										
538	THALLY	Arasakuppam	Thimmasandiram	17045										
539	THALLY	Arasakuppam	Lingadeernapalli	12861										
540	THALLY	Arasakuppam	Mekkalgoundanur	14702										
541	THALLY	Mallasandiram	Mallasandiram	20063										
542	THALLY	Mallasandiram	Thurukarapalayam	7105										

543	THALLY	Mallasandiram	Adikalapuram	18222									
544	THALLY	Mallasandiram	Enneswaram	10315									
545	THALLY	Mallasandiram	Ellaiyur	5125									
546	THALLY	Mallasandiram	Alenatham	14038									
547	THALLY	Mallasandiram	Bennangur	42907									
548	THALLY	Mallasandiram	Bennangur AD Colony	22277									
549	THALLY	Marudanapalli	Marudanapalli	23583									
550	THALLY	Marudanapalli	Kristhupalayam	16350									
551	THALLY	Marudanapalli	Bellur	23882									
552	THALLY	Marudanapalli	Ispathpalli	16350									
553	THALLY	Marudanapalli	Annasagaram	4794									
554	THALLY	Marudanapalli	Gopalayandoddi	4152									
555	THALLY	Marudanapalli	Bajjepalli	16350									
556	THALLY	Marudanapalli	Onnapalli	17516									
557	THALLY	Marudanapalli	Sakklipalayam	7105									
558	THALLY	Marudanapalli	Devareddypalayam	8207									
559	THALLY	Marudanapalli	Bellur Adc	6495									
560	THALLY	Mallasandiram	Chinna Adikalapuram	9341									
561	HOSUR	Achettipalli	Achettipalli	58315									
562	HOSUR	Achettipalli	Soodagondapalli	32389									
563	HOSUR	Achettipalli	Soothalam	26493									
564	HOSUR	Achettipalli	Edapalli	56571									
565	HOSUR	Achettipalli	Soppatti	21571									
566	HOSUR	Achettipalli	N. B. Agraharam	15611									
567	HOSUR	Achettipalli	Acettipalli - H	9844									
568	HOSUR	Avalappalli	Avalappalli	12262									
569	HOSUR	Avalappalli	Thimmasandiram	8207									
570	HOSUR	Avalappalli	Thottagiri	8806									
571	HOSUR	Avalappalli	Bharathi Nagar	10818									
572	HOSUR	Avalappalli	Basthi	8207									
573	HOSUR	Avalappalli	Muniyammakottai	10614									
574	HOSUR	Avalappalli	Teacher'S Colony	5157									
575	HOSUR	Avalappalli	Nggo Colony	36947									
576	HOSUR	Avalappalli	Vinayagapuram	39858									
577	HOSUR	Avalappalli	Indira Gandhi Nagar	37546									
578	HOSUR	Avalappalli	Ramanasri Nagar	6195									
579	HOSUR	Avalappalli	Ragavendra Colony	7404									
580	HOSUR	Avalappalli	Maharshi Nagar	3649									
581	HOSUR	Avalappalli	Sakthi Nagar	3852									
582	HOSUR	Avalappalli	Samundinagar	4259									
583	HOSUR	Nallur	Nallur	53928									
584	HOSUR	Nallur	Madivalam	18254									
585	HOSUR	Nallur	Siddanapalli	25188									
586	HOSUR	Nallur	Pedda Elasagiri	28441									
587	HOSUR	Nallur	Samathuvapuram	24385									
588	HOSUR	Nallur	Pedda Elasagiri	25958									

SI No	Name of Corporation / Municipality / Town Panchayat/ Union	Name of Panchayat	Name of Habitation	Allotted Qty. as per Scope (Inter) In Litre	Supplied Quantity for the Month of						Monthly Qty.	Total Quantity supplied Annually
					1	2	..	..	..	31		
B	Intermeditate Reach Beneficiaries											
1	Hosur Municipality			6350000								
2	Kelamangalam TP			637000								
3	Denkanikottai TP			896000								
1	THALLY	Anchetty	Anchetty	42072								
2	THALLY	Anchetty	Ramar Koil	7105								
3	THALLY	Anchetty	Vanathipatty	39697								
4	THALLY	Anchetty	Mariyalam	31758								
5	THALLY	Anchetty	Osadoddi	12658								
6	THALLY	Anchetty	Panai	4794								
7	THALLY	Anchetty	Devan Doddi	23786								
8	THALLY	Anchetty	Mavanathi	13964								
9	THALLY	Anchetty	Advi Doddi	14670								
10	THALLY	Anchetty	Kadaganatham	11053								
11	THALLY	Anchetty	Erumathanapalli	10614								
12	THALLY	Anchetty	Bailkadu	12658								
13	THALLY	Anchetty	Pudur	12262								
14	THALLY	Anchetty	Thamsanapalli	11256								
15	THALLY	Anchetty	Siddandapuram	17120								
16	THALLY	Anchetty	Mittudaranakotta	9009								
17	THALLY	Anchetty	Seenkotta	19528								
18	THALLY	Anchetty	Beedanapalli(Rama p	9009								
19	THALLY	Anchetty	Kamatchipuram	9009								
20	THALLY	Anchetty	Indira Nagar	10454								
21	THALLY	Anchetty	Erikodi	4152								
22	THALLY	Anchetty	Poonsolai	8646								
23	THALLY	Anchetty	Elumalaian Doddi	12423								
24	THALLY	Anchetty	Anchetty Yarabnagar	11856								
25	THALLY	Anchetty	Salethu Mariamman	4120								
26	THALLY	Anchetty	Rasikkal Gramam	4184								
27	THALLY	Anchetty	B. Rasipuram	4954								
28	THALLY	Anchetty	Akka Thangai	4954								
29	THALLY	Anchetty	ANDIYUR	11117								
30	THALLY	Anchetty	LAKSHMIPURAM	10315								
31	THALLY	Anchetty	PERUMAL GRAMMAM	5061								
32	THALLY	Anchetty	Thamsanapalli AD Colony	20234								
33	THALLY	Andevanapalli	Andevanapalli	59289								
34	THALLY	Andevanapalli	Konguchettypalli	11224								
35	THALLY	Andevanapalli	Anumanthapuram	13129								
36	THALLY	Andevanapalli	Ramachandram	24824								
37	THALLY	Andevanapalli	Venkatapuram	4794								
38	THALLY	Andevanapalli	Madamathigirir	24985								
39	THALLY	Andevanapalli	Gangadevanapalli	14606								
40	THALLY	Andevanapalli	Gopaliyandoddi	4152								
41	THALLY	Andevanapalli	Gogulnagar	4259								
42	THALLY	Andevanapalli	Mathurappan Kottai	4152								
43	THALLY	Andevanapalli	Umaiyar Kottai	4451								
44	THALLY	Andevanapalli	New Colony	4259								
45	THALLY	Ballapalli	Kembathupalli	16350								
46	THALLY	Ballapalli	Gurubarapalli	13503								

Tenderer

Chief Engineer, TWAD Board, Vellore

47	THALLY	Ballapalli	Ubbarayanapalli	46962										
48	THALLY	Devarulimangalam	Vysooragraharam	21004										
49	THALLY	Devarulimangalam	Devarulimanagalam	24417										
50	THALLY	Devarulimangalam	Devarulimanagalam	9074										
51	THALLY	Gundukotta	Gundukota	32656										
52	THALLY	Gundukotta	Hosehalli	15975										
53	THALLY	Gundukotta	Gurubarapalli	14873										
54	THALLY	Gundukotta	Gudisal Bailu	15879										
55	THALLY	Gundukotta	Yerichetti Eri	9009										
56	THALLY	Gundukotta	Kundu Kotta - Hc	9577										
57	THALLY	Gundukotta	Soppukuttai	4451										
58	THALLY	Gundukotta	Malligarjunadurga	4259										
59	THALLY	Gundukotta	Alathi	4152										
60	THALLY	Gundukotta	Gollahallibail	4055										
61	THALLY	Gundukotta	Enibanda	5799										
62	THALLY	Kakkadasam	Kakkadasam	16007										
63	THALLY	Kakkadasam	Thirumaligai	11460										
64	THALLY	Kakkadasam	K.Palayam	14670										
65	THALLY	Kakkadasam	Sadinayakannapalli	13632										
66	THALLY	Kakkadasam	Subash Nagar	4259										
67	THALLY	Kakkadasam	KAKKADASAM COLONY	16617										
68	THALLY	Kolatti	Kolatti	12059										
69	THALLY	Kolatti	Bikkanapalli	39387										
70	THALLY	Kolatti	Ommadapalli	11256										
71	THALLY	Kolatti	Kadumuchandram	15911										
72	THALLY	Kolatti	Thandaraimedu	4794										
73	THALLY	Kolatti	Goolichandram	4055										
74	THALLY	Noganur	Noganur	2311										
75	THALLY	Noganur	Maragatta	27799										
76	THALLY	Noganur	Kothur	17719										
77	THALLY	Noganur	Uchanapalli	20769										
78	THALLY	Noganur	Arthagur	20705										
79	THALLY	Noganur	Noganur AD Colony	20705										
80	THALLY	Salivaram	Salivaram	31051										
81	THALLY	Salivaram	Arilalam	33063										
82	THALLY	Salivaram	Sivanapalli	24321										
83	THALLY	Salivaram	Hosavur	4590										
84	THALLY	Salivaram	Boothattikottai	4451										
85	THALLY	Salivaram	Salivaram-H	12894										
86	THALLY	Salivaram	Chikkahosavur	4259										
87	THALLY	Salivaram	Dhanapal Kottai	4087										
88	THALLY	Natrampalayam	Motragi	27670										
89	THALLY	Natrampalayam	Sesurajapuram	23979										
90	THALLY	Natrampalayam	Bathigoundanur	20533										
91	THALLY	Natrampalayam	Panchal Thunai	16713										
92	THALLY	Natrampalayam	Pudur	16713										
93	THALLY	Natrampalayam	Athimarathukotta	11085										
94	THALLY	Natrampalayam	Mavanathy	26632										
95	THALLY	Natrampalayam	Addapallam	13931										
96	THALLY	Natrampalayam	Gandhipuram	4794										
97	THALLY	Natrampalayam	Arokiapuram	4794										
98	THALLY	Natrampalayam	Ethakinaru	15975										
99	THALLY	Natrampalayam	Geeratti Bungalow	18725										
100	THALLY	Natrampalayam	Sivalingapuram	27435										
101	THALLY	Natrampalayam	Goosappan Kottai	28034										
102	THALLY	Natrampalayam	Veeran Kotta	5157										
103	THALLY	Natrampalayam	Kombai	5457										

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Chief Engineer, TWAD Board, Vellore

104	THALLY	Natrampalayam	Chinnappan Kotta	4259								
105	THALLY	Natrampalayam	Jeeva Nagar	3585								
106	THALLY	Natrampalayam	GOUNDER VATTAM	1445								
107	THALLY	Natrampalayam	VEERAMPATTIKOT T AI	8507								
108	THALLY	Sarandapalli	Serandapalli	20127								
109	THALLY	Sarandapalli	Neralatti	15708								
110	THALLY	Sarandapalli	Basipalli	4794								
111	THALLY	Sarandapalli	Jogattipalayam	12091								
112	THALLY	Sarandapalli	Chennasandiram	4794								
113	THALLY	Sarandapalli	Neralatti - Adc	3146								
114	THALLY	Sarandapalli	Chinnabasipalli	4451								
115	THALLY	Sarandapalli	Indiranagar	5329								
116	THALLY	Thandarai	Thandarai	15237								
117	THALLY	Thandarai	Onnuvanapalli	9416								
118	THALLY	Thandarai	Isalamapuram	10689								
119	THALLY	Thandarai	Bandeswaram	7469								
120	THALLY	Thandarai	Samipuram	8004								
121	THALLY	Thandarai	Koratagiri	12294								
122	THALLY	Thandarai	Mariyapuram	4152								
123	THALLY	Thandarai	Melsamypuram	4451								
124	THALLY	Thaggatti	Thagatti	25659								
125	THALLY	Thaggatti	Doddiyur	4794								
126	THALLY	Thaggatti	Thagatti-Hc	13503								
127	THALLY	Thaggatti	Othipuram	9448								
128	THALLY	Thaggatti	Sivapura	4794								
129	THALLY	Thaggatti	Thattikattandoddi	29040								
130	THALLY	Thaggatti	Milithick	17281								
131	THALLY	Thaggatti	Bedrahalli	4794								
132	THALLY	Thaggatti	Segepallam	6334								
133	THALLY	Thaggatti	Millithick Irular Dodd	5393								
134	THALLY	Thaggatti	Thimmandoddi	12059								
135	THALLY	Gummalapuram	Thammapuram	23786								
136	THALLY	Gummalapuram	Gummalapuram	51146								
137	THALLY	Gummalapuram	Gummalapuram Ad	18490								
138	THALLY	Gummalapuram	G.N. Doddi	14466								
139	THALLY	Gummalapuram	Malleswaram	4259								
140	THALLY	Gummalapuram	Dhinnai	4055								
141	THALLY	Gummalapuram	INDIRA NAGAR	16617								
142	THALLY	Binnamangalam	Binnamangalam	44683								
143	THALLY	Binnamangalam	Elayasandiram	9416								
144	THALLY	Binnamangalam	Pathur	23786								
145	THALLY	Binnamangalam	Kottareddipalayam	4794								
146	THALLY	Binnamangalam	Mattaya Agraharam	7030								
147	THALLY	Binnamangalam	Kothapalli	9448								
148	THALLY	Binnamangalam	Viveka Nagar	4954								
149	THALLY	Gopasandiram	Gopasandiram	14541								
150	THALLY	Gopasandiram	Samanatham	12059								
151	THALLY	Gopasandiram	Oddarpalayam	11856								
152	THALLY	Gopasandiram	Oddakudisai	11460								
153	THALLY	Gopasandiram	Anumanthapuram	10015								
154	THALLY	Unisenatham	Gummala Agrahara	m 1982 7								
155	THALLY	Unisenatham	Karian Palayam	15472								
156	THALLY	Unisenatham	Gummalam	8239								
157	THALLY	Unisenatham	Basavanapuram	4055								
158	THALLY	Unisenatham	Belakarai	3585								
159	THALLY	Unisenatham	Devarbetta	18490								

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Chief Engineer, TWAD Board, Vellore

160	THALLY	Unisenatham	Kothandaramapur h a	4954									
161	THALLY	Unisenatham	Madappandoddi	6431									
162	THALLY	Doddaubbanur	Doddaubbanur	16114									
163	THALLY	Doddaubbanur	Chinnaubbanur	16681									
164	THALLY	Doddaubbanur	Oddarapalayam	14038									
165	THALLY	Doddaubbanur	Sangipalli	18254									
166	THALLY	Doddaubbanur	Kurubarapalli	16350									
167	THALLY	Doddaubbanur	Dasirapalli	14038									
168	THALLY	Doddaubbanur	Bellur	9448									
169	THALLY	Doddaubbanur	Muthanatham	4794									
170	THALLY	Doddaubbanur	C.R.Nagar	4259									
171	THALLY	Doddaubbanur	G.P.NAGAR	5061									
172	THALLY	Thally	Arupalli	28740									
173	THALLY	Thally	Kottabalam	9416									
174	THALLY	Thally	Gandhipuram	4794									
175	THALLY	Thally	Thally	98515									
176	THALLY	Thally	Athalvadi	18586									
177	THALLY	Thally	Guddusathanapalli	4259									
178	THALLY	Thally	Jogipalli	5960									
179	THALLY	Thally	T.Mallasandiram	5190									
180	THALLY	Thally	Arjun Doddi	4590									
181	THALLY	Thally	Kottur	4590									
182	THALLY	Thally	Andamar	4590									
183	THALLY	Thally	Kothur	6602									
184	THALLY	Thally	Thally Colony	49338									
185	THALLY	Thally	MARATI NAGAR	24353									
186	THALLY	Marupalli	Kunikal	14038									
187	THALLY	Marupalli	Kunchena Agrahara	4794									
188	THALLY	Marupalli	Marupalli	25926									
189	THALLY	Marupalli	Dasaiaandoodi	11492									
190	THALLY	Marupalli	Bettapalli	28473									
191	THALLY	Marupalli	Ossapuram	23315									
192	THALLY	Marupalli	Dinnur	4451									
193	THALLY	Marupalli	Bettapalli AD Colony	10112									
194	THALLY	Chudasandiram	Arjundoddi	7501									
195	THALLY	Chudasandiram	Oddarapalayam	4826									
196	THALLY	Chudasandiram	Kijinikakuppam	12658									
197	THALLY	Chudasandiram	Chatrandoddi	3948									
198	THALLY	Chudasandiram	Hosapptai	4794									
199	THALLY	Chudasandiram	Dinnur - H	4794									
200	THALLY	Chudasandiram	Baragaldoddi	4826									
201	THALLY	Chudasandiram	Muniveerandoddi	4558									
202	THALLY	Chudasandiram	Chudasandiram AD Colony	7800									
203	THALLY	Chudasandiram	MUNIYANDODDI	6666									
204	THALLY	Achubalu	Achubalu	6570									
205	THALLY	Achubalu	Lambadidoddi	5596									
206	THALLY	Achubalu	Chikkaveripalli	2547									
207	THALLY	Achubalu	Lakshmipuram	2611									
208	THALLY	Achubalu	Pattandoddi	4259									
209	THALLY	Achubalu	Masthidoddi	4794									
210	THALLY	Achubalu	Ombalian Dodddi	6602									
211	THALLY	Achubalu	Nanthibaildoddi	7404									
212	THALLY	Achubalu	Marandoddi	1744									
213	THALLY	Achubalu	Allappandoddi	4120									
214	THALLY	Achubalu	Belamaradoddi	1744									
215	THALLY	Achubalu	Periyaveripalli	9074									
216	THALLY	Achubalu	Basavan Doddi	4087									
217	THALLY	Achubalu	N.Agraharam	9812									
218	THALLY	Achubalu	Andlimaradoddi	4152									

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Chief Engineer, TWAD Board, Vellore

219	THALLY	Achubalu	Ambaldoddi	4590										
220	THALLY	Achubalu	Hosadoddi	4055										
221	THALLY	Achubalu	Mallikuttai	4590										
222	THALLY	Achubalu	Gurusadappan Dodd	4590										
223	THALLY	Achubalu	Sembigoudandoddi	5692										
224	THALLY	Achubalu	Kurubarapalli	4120										
225	THALLY	Achubalu	Kempathalli	7608										
226	THALLY	Achubalu	Muthukumaradoddi	4259										
227	THALLY	Achubalu	Bandedoddi	3349										
228	THALLY	Achubalu	Ramandoddi	1744										
229	THALLY	Achubalu	Timmandoddi	1541										
230	THALLY	Achubalu	Sathiyagopalapuram	4152										
231	THALLY	Achubalu	Pappaidoddi	2547										
232	THALLY	Achubalu	Basavanapuram	4055										
233	THALLY	Achubalu	Kalappandoddi	4152										
234	THALLY	Achubalu	Chennaiaandoddy	4120										
235	THALLY	Achubalu	Agraharam AD Colony	10112										
236	THALLY	Achubalu	Bellalam AD Colony	8111										
237	THALLY	Thally Kothanur	Ramnagar	8806										
238	THALLY	Thally Kothanur	Mallasandiram	18490										
239	THALLY	Thally Kothanur	Bellaripalli	15815										
240	THALLY	Thally Kothanur	Nagondapalayam	14038										
241	THALLY	Thally Kothanur	Marattipalayam	9448										
242	THALLY	Thally Kothanur	Kotteyana Agrahara	19292										
243	THALLY	Thally Kothanur	Thippeyana Agrahar	14038										
244	THALLY	Thally Kothanur	Geddepalayam	4259										
245	THALLY	Thally Kothanur	Thally Kothnaur AD	9074										
246	THALLY	Palayamkottai	Palayam Kottai	13193										
247	THALLY	Palayamkottai	Gollapalli	11289										
248	THALLY	Palayamkottai	Doddi	16382										
249	THALLY	Palayamkottai	Mutharayan Doddi	4259										
250	THALLY	Palayamkottai	Venkatapuram	4152										
251	THALLY	Palayamkottai	Dekkur -H	10721										
252	THALLY	Palayamkottai	Thamburi Doddi	7105										
253	THALLY	Palayamkottai	Enuchandiram	4794										
254	THALLY	Palayamkottai	Govindapalli	4152										
255	THALLY	Palayamkottai	Madam@ Venkates	4055										
256	THALLY	Palayamkottai	Gandhinagar	4355										
257	THALLY	Palayamkottai	Rajunaickandoddy	4055										
258	THALLY	Palayamkottai	Poosaridoddy	4259										
259	THALLY	Palayamkottai	Thimmanahalli	4451										
260	THALLY	Palayamkottai	PALAYAMKOTTAI COLONY	12498										
261	THALLY	Settipalli	Vanaganapalli	23347										
262	THALLY	Settipalli	Settipalli	21240										
263	THALLY	Settipalli	Medumuthukottai	14638										
264	THALLY	Settipalli	Veggandoddi	11460										
265	THALLY	Agalakotta	Madeswarasamy	4055										
266	THALLY	Agalakotta	Deerveethi	8036										
267	THALLY	Agalakotta	Buranapalli - N	2547										
268	THALLY	Agalakotta	Melmallapuram	4259										
269	THALLY	Agalakotta	Jonalenda	6762										
270	THALLY	Agalakotta	Kullubalam	15708										
271	THALLY	Agalakotta	Nachipalli	4087										

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Chief Engineer, TWAD Board, Vellore

272	THALLY	Agalakotta	Kumbarakotta	2643										
273	THALLY	Agalakotta	Kumbalathur	10518										
274	THALLY	Agalakotta	Javanachandiram	4120										
275	THALLY	Agalakotta	Ramapuram	4055										
276	THALLY	Agalakotta	Kallukuttai	4259										
277	THALLY	Agalakotta	Gurimandai	4055										
278	THALLY	Agalakotta	Basavanapalli	6367										
279	THALLY	Agalakotta	Maragaradoddi	5329										
280	THALLY	Agalakotta	Kulusamanapalli	4355										
281	THALLY	Agalakotta	K.R.Doddi	4087										
282	THALLY	Agalakotta	B.R.Doddi	6260										
283	THALLY	Agalakotta	Lakshmipuram	4055										
284	THALLY	Agalakotta	Geedunisis	13696										
285	THALLY	Agalakotta	Kriappandoddi	1947										
286	THALLY	Agalakotta	Kolanadaiyappan Do	4055										
287	THALLY	Padiganalam	Kandappankottai	4259										
288	THALLY	Padiganalam	Muthikarai	4355										
289	THALLY	Padiganalam	Padiganalam	4954										
290	THALLY	Padiganalam	Polarai	4152										
291	THALLY	Padiganalam	Savarabatham	4087										
292	THALLY	Padiganalam	Bridgehalli	4055										
293	THALLY	Padiganalam	Allakasandiram	4152										
294	THALLY	Padiganalam	Dasiyan Maduvu	4087										
295	THALLY	Padiganalam	Thimmannadoddi	4152										
296	THALLY	Padiganalam	Devannadoddi	1744										
297	THALLY	Padiganalam	Guna Naickendoddi	1573										
298	THALLY	Padiganalam	Meloorandoddi	1744										
299	THALLY	Padiganalam	Uliverappandoddi	2215										
300	THALLY	Padiganalam	B. Lakkasandaram	1637										
301	THALLY	Belugondapalli	Belugondapalli	56036										
302	THALLY	Belugondapalli	C.Agraharam	20127										
303	THALLY	Belugondapalli	Belugondapalli Ad C	19859										
304	THALLY	Komaranapalli	P.Agraharam	4451										
305	THALLY	Komaranapalli	Chinnamenaagrahar	18318										
306	THALLY	Komaranapalli	Medupalli	4858										
307	THALLY	Komaranapalli	Komaranapalli AD Co	12123										
308	THALLY	Kalugondapalli	Kalugondapalli	26194										
309	THALLY	Kalugondapalli	Vekkatapuram	9448										
310	THALLY	Kalugondapalli	Kappakkal	4858										
311	THALLY	Kalugondapalli	Uliveeranapalli	8710										
312	THALLY	Kalugondapalli	Kalugondapalli AD Colony	14167										
313	THALLY	Kalugondapalli	Uliveeranapalli AD Colony	12123										
314	THALLY	Kempatty	Kempatty	16114										
315	THALLY	Kempatty	Kanamanapalli	13065										
316	THALLY	Kempatty	Kallupalli	15911										
317	THALLY	Kempatty	Periyakodipalli	16478										
318	THALLY	Kempatty	Kuranoor	18126										
319	THALLY	Sathanur	Sathanur	20330										
320	THALLY	Sathanur	Onnatti	15108										
321	THALLY	Sathanur	Muthur	25391										
322	THALLY	Kuppatti	Kuppatti	18126										
323	THALLY	Kuppatti	C.R.Palayam	19057										
324	THALLY	Kuppatti	Byragoundapalli	14466										
325	THALLY	Kuppatti	Dinnur	11856										
326	THALLY	Kuppatti	Dasiripalli	10614										
327	THALLY	Kuppatti	Nagasandiram	15108										
328	THALLY	Kuppatti	B.Palayam	11856										

329	THALLY	Kuppatti	Basavanapuram	4451								
330	THALLY	Daravendiram	Daravendiram	12861								
331	THALLY	Daravendiram	B.Palayam	20127								
332	THALLY	Daravendiram	Kalainatty	8004								
333	THALLY	Daravendiram	Lingapuram	6195								
334	THALLY	Daravendiram	Arahalli	12059								
335	THALLY	Daravendiram	Sivanapalli	29543								
336	THALLY	Daravendiram	B Palayam AD Colony	9512								
337	THALLY	Mathagondapalli	Chinnamathagondap	16853								
338	THALLY	Mathagondapalli	Madagondapalli	66854								
339	THALLY	Mathagondapalli	Mathagur	19164								
340	THALLY	Mathagondapalli	Madagondapalli - H	32828								
341	THALLY	Mathagondapalli	BHARATHIYAR NAGAR	20030								
342	THALLY	Saragappalli	Saragappalli	29307								
343	THALLY	Saragappalli	Solipuram	19164								
344	THALLY	Saragappalli	Osatti	22374								
345	THALLY	Saragappalli	S.Kurupatti	17120								
346	THALLY	Saragappalli	Vanamangalam	9009								
347	THALLY	Saragappalli	Vannamangalam AD Colony	11117								
348	THALLY	Devaganapalli	Thogarai	31490								
349	THALLY	Devaganapalli	B.Kothapalli	20769								
350	THALLY	Devaganapalli	Devaganapalli	15911								
351	THALLY	Devaganapalli	Sanboganapalli	16917								
352	THALLY	Devaganapalli	Erragoundapalaya m	4954								
353	THALLY	Devaganapalli	Ramayan Agraharam	18126								
354	THALLY	Devaganapalli	Dhinnai	4954								
355	THALLY	Jagirkodipalli	Periamadahagondap	14071								
356	THALLY	Jagirkodipalli	Jagirkodipalli	15911								
357	THALLY	Jagirkodipalli	K.Agraharam	15108								
358	THALLY	Jagirkodipalli	Upparapalli	22374								
359	THALLY	Jagirkodipalli	Upparapalli AD Colo	5660								
360	THALLY	Kodiyalam	Kodiyalam	20833								
361	THALLY	Kodiyalam	Kalkeri	17751								
362	THALLY	Kodiyalam	Kodakareddy	19025								
363	THALLY	Kodiyalam	Oddarpalayam	16178								
	HOSUR UNION											
364	HOSUR	Chennathur	V.O.C.Nagar	22138								
365	HOSUR	Chennathur	Chennathur	61268								
366	HOSUR	Chennathur	Venkatesh Nagar	22374								
367	HOSUR	Chennathur	Seetharam Nagar	16713								
368	HOSUR	Chennathur	Kasavakotta	15472								
369	HOSUR	Chennathur	Alasanatham	24589								
370	HOSUR	Chennathur	Sanasandiram	34497								
371	HOSUR	Chennathur	Soodasandiram	20972								
372	HOSUR	Chennathur	Annamalai Nagar	3852								
373	HOSUR	Chennathur	Kadavul Nagar	3649								
374	HOSUR	Chennathur	Kalainar Nagar	3413								
375	HOSUR	Chennathur	Lakshmi Narashima	3649								
376	HOSUR	Chennathur	Mullai Nagar	4259								
377	HOSUR	Chennathur	Narasammal Colony	4055								
378	HOSUR	Mugalur	MUGALUR	53992								
379	HOSUR	Mugalur	Onnapalli	16414								
380	HOSUR	Mugalur	Madipalayam	4590								

381	HOSUR	Mugalur	Hanumanthapuram	5799								
382	HOSUR	Mugalur	D.Barandur	16617								
383	HOSUR	Mugalur	V.Agraharam	5061								
384	HOSUR	Mugalur	Mugalur A.D Colony	8207								
385	HOSUR	Gopanapalli	Gopanapalli	29842								
386	HOSUR	Gopanapalli	Devaganapalli	19731								
387	HOSUR	Gopanapalli	Gopanapalli - H	9341								
388	HOSUR	Gopanapalli	Golisandiram	10186								
389	HOSUR	Nagondapalli	Nagondapalli	61397								
390	HOSUR	Nagondapalli	Idayanallur-H	49274								
391	HOSUR	Nagondapalli	Idayanallur	3852								
392	HOSUR	S.Muduganapalli	M.Barandur	22513								
393	HOSUR	S.Muduganapalli	Byraga Palli	31854								
394	HOSUR	S.Muduganapalli	Begechettipally	28237								
395	HOSUR	S.Muduganapalli	S.Muduganapalli	27531								
396	HOSUR	S.Muduganapalli	Oddarpalayam	4355								
397	HOSUR	S.Muduganapalli	Dhinnur	10550								
398	HOSUR	S.Muduganapalli	Belagiri	21978								
399	HOSUR	S.Muduganapalli	S.Muduganapalli Col	3852								
400	HOSUR	Masinakkanapalli	A.T.Muduganapalli	10518								
401	HOSUR	Onnalvadi	Jonabenda	23551								
402	HOSUR	Onnalvadi	Nowathi	22941								
403	HOSUR	Onnalvadi	Somanathapuram	7800								
404	HOSUR	Onnalvadi	Okarapalli	21571								
405	HOSUR	Onnalvadi	Onnalvadi	47326								
406	HOSUR	Onnalvadi	Onnalvadi A.D Colony	4590								
407	HOSUR	Onnalvadi	BDO Colony	4055								
408	HOSUR	Onnalvadi	Gokul Nagar	4259								
409	HOSUR	Onnalvadi	Lakshminarashima Nagar	4451								
410	HOSUR	Onnalvadi	Rajivgandhi Nagar	3852								
411	HOSUR	Onnalvadi	Ramakrishna Colony	3649								
412	HOSUR	Onnalvadi	Senthil Nagar AR Colony	4055								
413	HOSUR	Thorapalli Agraharam	Gollapalli	28334								
414	HOSUR	Thorapalli Agraharam	N.Agraharam	19731								
415	HOSUR	Thorapalli Agraharam	Rajapuram	11289								
416	HOSUR	Thorapalli Agraharam	Kumudepalli	34903								
417	HOSUR	Thorapalli Agraharam	Gandhi Nagar	24685								
418	HOSUR	Thorapalli Agraharam	Pennamadam	38552								
419	HOSUR	Thorapalli Agraharam	Thorapalli Agraharam	40564								
420	HOSUR	Thorapalli Agraharam	Jothipuram	10518								
421	HOSUR	Thorapalli Agraharam	Ellammankothur	15676								
422	HOSUR	Thorapalli Agraharam	Ambiletti	15472								
423	HOSUR	Thorapalli Agraharam	Thippalam-H	28237								
424	HOSUR	Thorapalli Agraharam	Islamapuram	16446								
425	HOSUR	Thorapalli Agraharam	Gudisathanapalli	40564								
426	HOSUR	Thorapalli Agraharam	Thorapalli Ad Colony	60594								
427	HOSUR	Thorapalli Agraharam	Palayagudisathanapalli	4259								
428	HOSUR	Kothakondapalli	Kothakondapalli	45218								
429	HOSUR	Kothakondapalli	Bommandapalli	48503								
430	HOSUR	Kothakondapalli	Nanjapuram	22673								

431	HOSUR	Kothakondapalli	Kothakondapalli Colony	11460								
432	HOSUR	Kothakondapalli	Bommandapally Colony	4055								
433	HOSUR	Poonapalli	Poonapalli	71316								
434	HOSUR	Poonapalli	Chinnabelagounda p alli	38927								
435	HOSUR	Poonapalli	Dasiripalli	4451								
436	HOSUR	Alasapalli Battavarapalli	B.Muduganapalli	33191								
437	HOSUR	Alasapalli Battavarapalli	Mallasandiram	14071								
438	HOSUR	Alasapalli Battavarapalli	Battawarapalli	7201								
439	HOSUR	Alasapalli Battavarapalli	Vathirapalli	6195								
440	HOSUR	Alasapalli Battavarapalli	Achasandiram	8539								
441	HOSUR	Alasapalli Battavarapalli	Ottapalli-H	9341								
442	HOSUR	Alasapalli Battavarapalli	Anna Nagar	16146								
443	HOSUR	Alasapalli Battavarapalli	Ottapalli	9009								
444	HOSUR	Alasapalli Battavarapalli	Alasapalli	10957								
445	HOSUR	Bellathur	Belathur	40863								
446	HOSUR	Bellathur	Thalapalli	17120								
447	HOSUR	Bellathur	Boopanapalli	22374								
448	HOSUR	Bellathur	Soodapuram	25990								
449	HOSUR	Bellathur	Teachers Colony	18789								
450	HOSUR	Bellathur	Jeeva Nagar (New)	16275								
451	HOSUR	Bellathur	Rajeev Nagar - (New)	101222								
452	HOSUR	Bellathur	V. O. C. Nagar	60797								
453	HOSUR	Bellathur	Boopalapuram	6195								
454	HOSUR	Bellathur	Singasadanapalli	16007								
455	HOSUR	Bellathur	Vinayagapuram	4152								
456	HOSUR	Eachangur	Koosthanapalli	48471								
457	HOSUR	Eachangur	Eachangur	48471								
458	HOSUR	Eachangur	Eluvapalli	13503								
459	HOSUR	Eachangur	Dasirapalli	17484								
460	HOSUR	Eachangur	Kooliganapalli	17623								
461	HOSUR	Eachangur	Chokanathapuram	38755								
462	HOSUR	Eachangur	Chokanathapuram Colony	4259								
463	HOSUR	Chennasandiram	Kalasthipuram	8207								
464	HOSUR	Chennasandiram	Viruppasandiram (Or	15472								
465	HOSUR	Chennasandiram	Bairasandiram	12658								
466	HOSUR	Chennasandiram	Marasandiram	14606								
467	HOSUR	Chennasandiram	Gempasandiram	4055								
468	HOSUR	Chennasandiram	Viswanathapuram	4259								
469	HOSUR	Chennasandiram	K.K.Nagar	11256								
470	HOSUR	Chennasandiram	Chennasandiram	29179								
471	HOSUR	Chennasandiram	Uliyalam	11256								
472	HOSUR	Nandhimangalam	Nandhimangalam	21571								
473	HOSUR	Nandhimangalam	Permalpalli	36947								
474	HOSUR	Nandhimangalam	Karanapalli	26761								
475	HOSUR	Palavanapalli	Alenatham	15911								

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476	HOSUR	Palavanapalli	Soodagondapalli	14670									
477	HOSUR	Palavanapalli	Palavanapalli	24321									
478	HOSUR	Palavanapalli	Booduganur	6195									
479	HOSUR	Palavanapalli	Mavathur	16146									
480	HOSUR	Palavanapalli	Palavanapalli A.D.Co	8207									
481	HOSUR	Muthali [Pedda]	Beddamuthalai	30046									
482	HOSUR	Muthali [Pedda]	Chinnamuthalai	25188									
483	HOSUR	Muthali [Pedda]	Boodhinadam	27135									
484	HOSUR	Muthali [Pedda]	Karupalli	27467									
485	HOSUR	Muthali [Pedda]	Kothur	26793									
486	HOSUR	Muthali [Pedda]	Dasiripallidinna Colo	3649									
487	HOSUR	Koladasapuram	Koladasapuram	22042									
488	HOSUR	Koladasapuram	Koladasapuram Colo	4259									
489	HOSUR	Bagalur	Zeemangalam	71283									
490	HOSUR	Bagalur	Dinnapalli	10486									
491	HOSUR	Bagalur	Lingapuram	12102									
492	HOSUR	Bagalur	Bagalur	267104									
493	HOSUR	Bagalur	Bagalur - H	50376									
494	HOSUR	Bagalur	Venkatarayapuram	24717									
495	HOSUR	Bagalur	Rajiv Nagar	4259									
496	HOSUR	Badethapalli	Attur	15173									
497	HOSUR	Badethapalli	Badathapalli	40232									
498	HOSUR	Badethapalli	Devichettipalli	17420									
499	HOSUR	Badethapalli	Kannimangalam	14145									
500	HOSUR	Thummanapally	Thummanapally	23818									
501	HOSUR	Thummanapally	Sathiyamangalam	28205									
502	HOSUR	Thummanapally	Mugalapally	28269									
503	HOSUR	Thummanapally	Sanamangalam	26836									
504	HOSUR	Thummanapally	Gandhinagar	10293									
505	HOSUR	Thummanapally	Sathiyamangalam Co	4301									
506	HOSUR	Baliganapalli	Alur	24482									
507	HOSUR	Baliganapalli	Kanagondapalli	28034									
508	HOSUR	Poonapalli	Chinnabelakondap al	4055									
	SHOOLAGIRI UNION												
509	SHOOLAGIRI	Ayyarnapalli	Haleseebam	50311									
510	SHOOLAGIRI	Ayyarnapalli	Indranagar	4590									
511	SHOOLAGIRI	Ayyarnapalli	Balepuram	7939									
512	SHOOLAGIRI	Ayyarnapalli	Kothur	7437									
513	SHOOLAGIRI	Ayyarnapalli	Kodagaralapalli	9009									
514	SHOOLAGIRI	Ayyarnapalli	Varadaralapuram	5029									
515	SHOOLAGIRI	Ayyarnapalli	Nallaralapalli	21871									
516	SHOOLAGIRI	Ayyarnapalli	Bandapalli	17923									
517	SHOOLAGIRI	Ayyarnapalli	Mettarai	4655									
518	SHOOLAGIRI	Ayyarnapalli	Mamarathupatti	4259									
519	SHOOLAGIRI	Ayyarnapalli	Poovarasampatti	4451									
520	SHOOLAGIRI	Ayyarnapalli	Chinnapandapalli	4590									
521	SHOOLAGIRI	Ayyarnapalli	Erularkotta	3852									
522	SHOOLAGIRI	Ayyarnapalli	Haleseebam Gandhi	4055									
523	SHOOLAGIRI	Beerjepalli	Pathakotta	33726									
524	SHOOLAGIRI	Beerjepalli	Ramapuram	24417									
525	SHOOLAGIRI	Beerjepalli	Naickenhalli	16275									
526	SHOOLAGIRI	Beerjepalli	Beerjepalli	20769									
527	SHOOLAGIRI	Beerjepalli	Nerupur	9009									
528	SHOOLAGIRI	Beerjepalli	M G R Nagar	4259									
529	SHOOLAGIRI	Beerjepalli	Yaganapalli	3852									
530	SHOOLAGIRI	Sanamavu	Sanamavu	45422									
531	SHOOLAGIRI	Sanamavu	Upperthimmanahali	29575									
532	SHOOLAGIRI	Sanamavu	Bennikal	27028									

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533	SHOOLAGIRI	Sanamavu	D.Kothapalli	40895									
534	SHOOLAGIRI	Kommepalli	Thiyanadurgam	27435									
535	SHOOLAGIRI	Kommepalli	Hanumanthapuram	22641									
536	SHOOLAGIRI	Kommepalli	Obepalayam	17355									
537	SHOOLAGIRI	Kommepalli	Kommepalli	23315									
538	SHOOLAGIRI	Kommepalli	Agaram	69368									
539	SHOOLAGIRI	Kommepalli	Agaram Murugankoi	14809									
540	SHOOLAGIRI	Kommepalli	Krishnapuram	8207									
541	SHOOLAGIRI	Kommepalli	Indira Nagar	4259									
542	SHOOLAGIRI	Thuppaganapalli	Thuppaganapalli	24589									
543	SHOOLAGIRI	Thuppaganapalli	T.Kurubarapalli	29179									
544	SHOOLAGIRI	Thuppaganapalli	Chinnabetiganapalli	44619									
545	SHOOLAGIRI	Thuppaganapalli	Periabetiganapalli	7340									
546	SHOOLAGIRI	Thuppaganapalli	Anjalagiri	16007									
547	SHOOLAGIRI	Thuppaganapalli	Sonnaiyur	8742									
548	SHOOLAGIRI	Thuppaganapalli	Kanjur	8207									
549	SHOOLAGIRI	Thuppaganapalli	Yaganapalli	13867									
550	SHOOLAGIRI	Thuppaganapalli	Krishnamakothur	7939									
551	SHOOLAGIRI	Thuppaganapalli	Mallinaickenpalli	5093									
552	SHOOLAGIRI	Uddanapalli	Devasanapalli	38584									
553	SHOOLAGIRI	Uddanapalli	Lalikal	12326									
554	SHOOLAGIRI	Uddanapalli	Kanasandiram	18490									
555	SHOOLAGIRI	Uddanapalli	Venkatesapuram	13835									
556	SHOOLAGIRI	Uddanapalli	Uddanapalli	44148									
557	SHOOLAGIRI	Uddanapalli	Chinnalakshmipuram	7169									
558	SHOOLAGIRI	Uddanapalli	Krishnapuram	16446									
559	SHOOLAGIRI	Uddanapalli	Krishnapuram	5489									
560	SHOOLAGIRI	Uddanapalli	Kooganur	5489									
561	SHOOLAGIRI	Uddanapalli	Kothur	16446									
562	SHOOLAGIRI	Uddanapalli	Goodumakanapalli	5692									
563	SHOOLAGIRI	Uddanapalli	Agaram Agraharam	5692									
564	SHOOLAGIRI	Uddanapalli	Govindapuram	4451									
565	SHOOLAGIRI	Uddanapalli	Uddanapalli AD Colo	4055									
566	SHOOLAGIRI	Ankondapalli	Ankondapalli	13835									
567	SHOOLAGIRI	Ankondapalli	Chakkarlu	7437									
568	SHOOLAGIRI	Ankondapalli	Papanapalli	5297									
569	SHOOLAGIRI	Ankondapalli	Kottangaral	20330									
570	SHOOLAGIRI	Ankondapalli	S.Thimmasandiram	17623									
571	SHOOLAGIRI	Ankondapalli	Ettipalligutta	18158									
572	SHOOLAGIRI	Ankondapalli	Dinnur	7437									
573	SHOOLAGIRI	Ankondapalli	Barbar kotta	3413									
574	SHOOLAGIRI	Ankondapalli	Ramachandrapuram	4259									
575	SHOOLAGIRI	Pasthalapalli	Pasthalapalli	12423									
576	SHOOLAGIRI	Pasthalapalli	Pasthalapalli	12423									
577	SHOOLAGIRI	Pasthalapalli	Mudipinaickenpalay	15141									
578	SHOOLAGIRI	Pasthalapalli	Chinnakothannur	7437									
579	SHOOLAGIRI	Pasthalapalli	Sahadevapuram	16617									
580	SHOOLAGIRI	Pasthalapalli	Thangadikuppam	6195									
581	SHOOLAGIRI	Pasthalapalli	Meldasapuram	3852									
582	SHOOLAGIRI	Pasthalapalli	Sanjeevipuram	3649									
583	SHOOLAGIRI	Kalingavaram	Kalingavaram	12594									
584	SHOOLAGIRI	Kalingavaram	Agraharam	13867									
585	SHOOLAGIRI	Kalingavaram	Kodi Thimmanapalli	16713									
586	SHOOLAGIRI	Kalingavaram	Jowkupallam	4152									
587	SHOOLAGIRI	Kalingavaram	Kalingapuram Dinnu	7608									

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588	SHOOLAGIRI	Kalingavaram	Mattampalli	12262										
589	SHOOLAGIRI	Kalingavaram	Gurumoorthykottai	16617										
590	SHOOLAGIRI	Kalingavaram	C.Dinnur	4451										
591	SHOOLAGIRI	Kalingavaram	Bharathi Nagar	4259										
592	SHOOLAGIRI	Chimbalatharadi	Chimbalatharadi	7501										
593	SHOOLAGIRI	Chimbalatharadi	Arupalli	34497										
594	SHOOLAGIRI	Chimbalatharadi	Maruldevanapalli	12155										
595	SHOOLAGIRI	Chimbalatharadi	Doddepalli	6195										
596	SHOOLAGIRI	Chimbalatharadi	Sivasigalarapalli	16917										
597	SHOOLAGIRI	Chimbalatharadi	Chinna Sigalarapalli	4055										
598	SHOOLAGIRI	Chimbalatharadi	Nagamangalam	3413										
599	SHOOLAGIRI	Chimbalatharadi	Subramania Nagar	3756										
600	SHOOLAGIRI	Marandapalli	Marandapalli	36883										
601	SHOOLAGIRI	Marandapalli	Kothamakundu	28569										
602	SHOOLAGIRI	Marandapalli	Shooladinna	6195										
603	SHOOLAGIRI	Marandapalli	Dasampatti	10251										
604	SHOOLAGIRI	Marandapalli	Krishnagowripalli	15108										
605	SHOOLAGIRI	Marandapalli	Vempalli	13835										
606	SHOOLAGIRI	Marandapalli	Indira Nagar	13065										
607	SHOOLAGIRI	Marandapalli	Nanjapuram	13835										
608	SHOOLAGIRI	Marandapalli	Doddur	13696										
609	SHOOLAGIRI	Marandapalli	Ondiyur	4954										
610	SHOOLAGIRI	Marandapalli	Karunkal	6195										
611	SHOOLAGIRI	Marandapalli	Indiganur	4055										
612	SHOOLAGIRI	Maruthandapalli	Maruthandapalli	10550										
613	SHOOLAGIRI	Maruthandapalli	Odderpalayam	17281										
614	SHOOLAGIRI	Maruthandapalli	Adhernapalli	18725										
615	SHOOLAGIRI	Maruthandapalli	Damkothapalli	6260										
616	SHOOLAGIRI	Maruthandapalli	Pindaganapalli	8945										
617	SHOOLAGIRI	Maruthandapalli	Jogirpalayam	7437										
618	SHOOLAGIRI	Maruthandapalli	Anasandiram	26429										
619	SHOOLAGIRI	Maruthandapalli	Varadapuram	17216										
620	SHOOLAGIRI	Maruthandapalli	Evasapalli	12262										
621	SHOOLAGIRI	Maruthandapalli	Millath Nagar	5660										
622	SHOOLAGIRI	Maruthandapalli	Sainagar	4259										
623	SHOOLAGIRI	Sembarasanapalli	Sembarasanapalli	31586										
624	SHOOLAGIRI	Sembarasanapalli	Mylepalli	12326										
625	SHOOLAGIRI	Sembarasanapalli	Thinnur	5029										
626	SHOOLAGIRI	Sembarasanapalli	Madam Sembarasan	24385										
627	SHOOLAGIRI	Sembarasanapalli	Beelalam	11460										
628	SHOOLAGIRI	Sembarasanapalli	Goraldoddi	8143										
629	SHOOLAGIRI	Sembarasanapalli	Periapapanapalli	7404										
630	SHOOLAGIRI	Sembarasanapalli	Kottayur	5029										
631	SHOOLAGIRI	Sembarasanapalli	Beelalam Eri Kotta	4055										
632	SHOOLAGIRI	Settipalli	A.Settipalli	49541										
633	SHOOLAGIRI	Settipalli	Gorakurukki	20330										
634	SHOOLAGIRI	Settipalli	Alasapalli	20202										
635	SHOOLAGIRI	Settipalli	Alasadanapalli	39290										
636	SHOOLAGIRI	Peddasigeralapalli	Peddasigeralapalli	16649										
637	SHOOLAGIRI	Peddasigeralapalli	Beppalapalli	12326										
638	SHOOLAGIRI	Peddasigeralapalli	Konathimmanapalli	9213										
639	SHOOLAGIRI	Peddasigeralapalli	Kogilapalli	5029										
640	SHOOLAGIRI	Peddasigeralapalli	Karabala	11353										
641	SHOOLAGIRI	Peddasigeralapalli	Tharadi	9213										
642	SHOOLAGIRI	Peddasigeralapalli	Dinnur	9213										
643	SHOOLAGIRI	Peddasigeralapalli	Alusonai	18318										
644	SHOOLAGIRI	Peddasigeralapalli	Gangasandhiram	16981										
645	SHOOLAGIRI	Peddasigeralapalli	Pattakurubarapalli	11353										
646	SHOOLAGIRI	Peddasigeralapalli	Kuttiappankottai	4451										
647	SHOOLAGIRI	Peddasigeralapalli	Jodubai	6195										
648	SHOOLAGIRI	Peddasigeralapalli	Sivappankottai	6195										

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649	SHOOLAGIRI	Athimugam	Athimugam	51381									
650	SHOOLAGIRI	Athimugam	Narasapuram	26097									
651	SHOOLAGIRI	Athimugam	Palavarapalli	14734									
652	SHOOLAGIRI	Athimugam	Odderpalayam	5960									
653	SHOOLAGIRI	Athimugam	Thiagadaralapalli	14809									
654	SHOOLAGIRI	Athimugam	Punnagaram	15076									
655	SHOOLAGIRI	Athimugam	Gollapalli	14734									
656	SHOOLAGIRI	Athimugam	Midithapalli	17420									
657	SHOOLAGIRI	Athimugam	Mukkalapalli	13664									
658	SHOOLAGIRI	Athimugam	Athetti	17248									
659	SHOOLAGIRI	Athimugam	Athimugam AD Colo	4451									
660	SHOOLAGIRI	Athimugam	Kamalakandakoth ur	3649									
661	SHOOLAGIRI	Athimugam	Kariasandhiram	3413									
662	SHOOLAGIRI	Kamandoddi	Kamandoddi	38723									
663	SHOOLAGIRI	Kamandoddi	Pannapalli	9448									
664	SHOOLAGIRI	Kamandoddi	Kukkalapalli	10015									
665	SHOOLAGIRI	Kamandoddi	Gangapuram	17248									
666	SHOOLAGIRI	Kamandoddi	Gopasandiram	14809									
667	SHOOLAGIRI	Kamandoddi	Kurubasapadi	31993									
668	SHOOLAGIRI	Kamandoddi	Sapadi	13867									
669	SHOOLAGIRI	Kamandoddi	Pillaikothur	14809									
670	SHOOLAGIRI	Kamandoddi	Thirumalaigounden k	24824									
671	SHOOLAGIRI	Kamandoddi	Dinnur	8742									
672	SHOOLAGIRI	Kamandoddi	Podur	5960									
673	SHOOLAGIRI	Kamandoddi	Aliyalam	5029									
674	SHOOLAGIRI	Kamandoddi	Theervethi	4858									
675	SHOOLAGIRI	Kamandoddi	Karishnammakoth ur	4451									
676	SHOOLAGIRI	Kamandoddi	Jothi Nagar	4259									
677	SHOOLAGIRI	Kamandoddi	Kamandoddi AD Colo	3852									
678	SHOOLAGIRI	Koneripalli	Nallaganakothapall i	20565									
679	SHOOLAGIRI	Koneripalli	Koneripalli	24856									
680	SHOOLAGIRI	Koneripalli	Kotralapalli	13503									
681	SHOOLAGIRI	Koneripalli	Gundukurukki	28441									
682	SHOOLAGIRI	Koneripalli	Rajaji Nagar	4152									
683	SHOOLAGIRI	Koneripalli	Barathipuram	4259									
684	SHOOLAGIRI	Koneripalli	M.G.R Nagar	4355									
685	SHOOLAGIRI	Koneripalli	Munishwarnagar	4451									
686	SHOOLAGIRI	Koneripalli	Gandhinagar	5297									
687	SHOOLAGIRI	Kanalatti	Kanalatti	22374									
688	SHOOLAGIRI	Kanalatti	Thummanapalli	7437									
689	SHOOLAGIRI	Kanalatti	Akuthotakothur	4451									
690	SHOOLAGIRI	Kanalatti	Ravoothalapalli	4259									
691	SHOOLAGIRI	Kanalatti	Dinnur	5297									
692	SHOOLAGIRI	Kanalatti	Usthanapalli	4655									
693	SHOOLAGIRI	Kanalatti	Addakurukki	13568									
694	SHOOLAGIRI	Kanalatti	Oddarpalayam	16275									
695	SHOOLAGIRI	Kanalatti	Addakurukki X Roa	4858									
696	SHOOLAGIRI	Kanalatti	Kaverinagar	4055									
697	SHOOLAGIRI	Kanalatti	Appugiri	3649									
698	SHOOLAGIRI	Doripalli	Doripalli	26996									
699	SHOOLAGIRI	Doripalli	Dasanapuram	22545									
700	SHOOLAGIRI	Doripalli	Ungatti	9919									
701	SHOOLAGIRI	Doripalli	Kothakota	8742									
702	SHOOLAGIRI	Doripalli	Beemanapalli	20202									
703	SHOOLAGIRI	Doripalli	Kottatti	7437									
704	SHOOLAGIRI	Doripalli	Kallukurukki	24589									
705	SHOOLAGIRI	Doripalli	Meldasapuram	4055									
706	SHOOLAGIRI	Doripalli	Thomrampalayam	4259									
707	SHOOLAGIRI	Alur	Alur	34700									

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708	SHOOLAGIRI	Alur	Dinnur	25359										
709	SHOOLAGIRI	Alur	A.Samanapalli	25359										
710	SHOOLAGIRI	Alur	Kadrepalli	22042										
711	SHOOLAGIRI	Alur	Sundatti	18490										
712	SHOOLAGIRI	Alur	Abiri	9919										
713	SHOOLAGIRI	Alur	Thippepalli	10015										
714	SHOOLAGIRI	Alur	Eswarankoil	4451										
715	SHOOLAGIRI	Bukkasagaram	Bukkasagaram	39323										
716	SHOOLAGIRI	Bukkasagaram	Sembatti	14809										
717	SHOOLAGIRI	Bukkasagaram	Ramachandiram	19495										
718	SHOOLAGIRI	Bukkasagaram	Valparai	3649										
719	SHOOLAGIRI	Venkatesapuram	Venkatesapuram	20469										
720	SHOOLAGIRI	Venkatesapuram	Gollapalli	13001										
721	SHOOLAGIRI	Venkatesapuram	Bikkili	17687										
722	SHOOLAGIRI	Venkatesapuram	Inukabeeranapalli	8207										
723	SHOOLAGIRI	Venkatesapuram	Guttalapalli	9919										
724	SHOOLAGIRI	Venkatesapuram	Menasandoddi	22438										
725	SHOOLAGIRI	Venkatesapuram	Manthakutta	9009										
726	SHOOLAGIRI	Venkatesapuram	Angepalli	6260										
727	SHOOLAGIRI	Venkatesapuram	Dasiripalli	4055										
728	SHOOLAGIRI	Venkatesapuram	Usthalapalli	4259										
729	SHOOLAGIRI	Kattinaickendodi	Kattinaickendoddi	34197										
730	SHOOLAGIRI	Kattinaickendodi	Gandrapalli	12423										
731	SHOOLAGIRI	Kattinaickendodi	Dombarkudisai	5660										
732	SHOOLAGIRI	Kattinaickendodi	Eluvapalli	8881										
733	SHOOLAGIRI	Kattinaickendodi	Vanamangalam	39023										
734	SHOOLAGIRI	Kattinaickendodi	Basveswara Nagar	4259										
735	SHOOLAGIRI	Kattinaickendodi	Puttappasamy koil	4055										
736	SHOOLAGIRI	Berigai	Berigai	245458										
737	SHOOLAGIRI	Berigai	Berigai Adc	9009										
738	SHOOLAGIRI	B.Kurubarapalli	B.Kurubarapalli	10989										
739	SHOOLAGIRI	B.Kurubarapalli	Mahadevapuram	13696										
740	SHOOLAGIRI	B.Kurubarapalli	Shooligunta	6762										
741	SHOOLAGIRI	B.Kurubarapalli	Malivalam	16275										
742	SHOOLAGIRI	B.Kurubarapalli	Seekanapalli	14306										
743	SHOOLAGIRI	B.Kurubarapalli	Singiripalli	14670										
744	SHOOLAGIRI	B.Kurubarapalli	Maruthinagar	14466										
745	SHOOLAGIRI	B.Kurubarapalli	Ramnagar	4259										
746	SHOOLAGIRI	B.Kurubarapalli	Bandhri	4055										
747	SHOOLAGIRI	B.S.Thimmasandiram	B.S.Thimmasandiram	29949										
748	SHOOLAGIRI	B.S.Thimmasandiram	B.Thattavanapalli	39355										
749	SHOOLAGIRI	B.S.Thimmasandiram	Amudukondapalli	24621										
750	SHOOLAGIRI	B.S.Thimmasandiram	Sonnepuram	29543										
751	SHOOLAGIRI	B.S.Thimmasandiram	Chinthaldoddi	21133										
752	SHOOLAGIRI	B.S.Thimmasandiram	Nariganapuram	15108										
753	SHOOLAGIRI	B.S.Thimmasandiram	Saraldoddi	6195										
754	SHOOLAGIRI	B.S.Thimmasandiram	Doddiganthinagar	4259										
755	SHOOLAGIRI	Nerigam	Nerigam	22074										
756	SHOOLAGIRI	Nerigam	Thorapalli	5329										
757	SHOOLAGIRI	Nerigam	Shed	5564										
758	SHOOLAGIRI	Nerigam	B.Chennasandhiram	19827										
759	SHOOLAGIRI	Nerigam	Gollapalli	19025										
760	SHOOLAGIRI	Nerigam	Koolur	17248										
761	SHOOLAGIRI	Nerigam	Sokkapuram	17248										
762	SHOOLAGIRI	Nerigam	Kurianapalli	10850										
763	SHOOLAGIRI	Nerigam	Pathalapalli	4152										
764	SHOOLAGIRI	Chinnarandoddi	Chinnarandoddi	17548										
765	SHOOLAGIRI	Chinnarandoddi	Malakalakki	13803										
766	SHOOLAGIRI	Chinnarandoddi	Sigaralapalli	12262										
767	SHOOLAGIRI	Chinnarandoddi	Gudisathanapalli	38488										
768	SHOOLAGIRI	Chinnarandoddi	Thannergundalapalli	14670										

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769	SHOOLAGIRI	Chinnarandoddi	Chapparapalli	6762								
770	SHOOLAGIRI	Chinnarandoddi	Gajalandoddi	35706								
771	SHOOLAGIRI	Chinnarandoddi	Erular colony	3948								
772	SHOOLAGIRI	Chinnarandoddi	Colony	3649								
773	SHOOLAGIRI	Kumbalam	Kumbalam	29575								
774	SHOOLAGIRI	Kumbalam	Chinnaguthi	15472								
775	SHOOLAGIRI	Kumbalam	Kottasadanapalli	5329								
776	SHOOLAGIRI	Kumbalam	Muthurauyanpudur	7233								
777	SHOOLAGIRI	Kumbalam	Ramandodi	30484								
778	SHOOLAGIRI	Kumbalam	Meenandoddi	16275								
779	SHOOLAGIRI	Kumbalam	Doddegounipalli	14670								
780	SHOOLAGIRI	Pannapalli	Pannapalli	25990								
781	SHOOLAGIRI	Pannapalli	Srinivasapuram	5489								
782	SHOOLAGIRI	Pannapalli	Muthukurukki	50675								
783	SHOOLAGIRI	Pannapalli	Shooliguntapuram	9448								
784	SHOOLAGIRI	Pannapalli	Narasapuram	23315								
785	SHOOLAGIRI	Pannapalli	S.Thathanapalli	12326								
786	SHOOLAGIRI	Pannapalli	Geragapalli	7404								
787	SHOOLAGIRI	Pannapalli	Lakshmipuram	4590								
788	SHOOLAGIRI	Pannapalli	Giraga Beedu	3413								
789	SHOOLAGIRI	Pannapalli	Kurianapalli	4055								
790	SHOOLAGIRI	Pannapalli	Puram Dinna	3788								
791	SHOOLAGIRI	Perandapalli	Moranapalli	12765								
792	SHOOLAGIRI	Perandapalli	Pathalapalli	36508								
793	SHOOLAGIRI	Perandapalli	Perandapalli	53061								
794	SHOOLAGIRI	Perandapalli	Kothur	22138								
795	SHOOLAGIRI	Perandapalli	Thiruchipalli	22138								
796	SHOOLAGIRI	Perandapalli	Marasandiram	19164								
797	SHOOLAGIRI	Perandapalli	Thammanakkenpalli	19699								
798	SHOOLAGIRI	Perandapalli	Dodathepalli	19699								
799	SHOOLAGIRI	Perandapalli	Hanumanthapuram	22138								
800	KELAMANGALAM	Bevanatham	Alasatti	18318								
801	KELAMANGALAM	Bevanatham	Kadulakasandiram	17623								
802	KELAMANGALAM	Bevanatham	Bevanatham	20266								
803	KELAMANGALAM	Bevanatham	Chinnabaleguli	11995								
804	KELAMANGALAM	Bevanatham	Narappanatti	16649								
805	KELAMANGALAM	Bevanatham	Kothur	9684								
806	KELAMANGALAM	Bevanatham	Magadi	13396								
807	KELAMANGALAM	Bevanatham	Nanjundaiyapuram	5393								
808	KELAMANGALAM	Jakir Karupalli	Venkatapuram	24321								
809	KELAMANGALAM	Jakir Karupalli	Jakir Karupalli	20769								
810	KELAMANGALAM	Jakir Karupalli	Jakir Sivaramapuram	4184								
811	KELAMANGALAM	Kandaganapalli	Daruthimmanahalli	17248								
812	KELAMANGALAM	Kandaganapalli	Varadhareddipalayam	16275								
813	KELAMANGALAM	Kandaganapalli	Pappireddipalayam	11256								
814	KELAMANGALAM	Kandaganapalli	Dinnur	12658								
815	KELAMANGALAM	Kandaganapalli	Kandaganapalli	21775								
816	KELAMANGALAM	Kandaganapalli	Elasatti	19164								
817	KELAMANGALAM	Kandaganapalli	Samnagar	4954								
818	KELAMANGALAM	Kandaganapalli	Mariamman Kovilur	8378								
819	KELAMANGALAM	Rathnagiri	Anna Nagar	7800								
820	KELAMANGALAM	Rathnagiri	Kariappan Nagar	4259								
821	KELAMANGALAM	Rathnagiri	Govindapalli	8004								
822	KELAMANGALAM	Rathnagiri	Thattasandiram	4451								
823	KELAMANGALAM	Rathnagiri	Gudiyur	4152								
824	KELAMANGALAM	Rathnagiri	Chinnakallupalli	4152								
825	KELAMANGALAM	Rathnagiri	Basavanapalli	7533								
826	KELAMANGALAM	Rathnagiri	Rathnagiri	4858								

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827	KELAMANGALAM	Rathnagiri	Thadikkal	16917								
828	KELAMANGALAM	Bettamugalalam	Bettamugalalam	14606								
829	KELAMANGALAM	Bettamugalalam	Kalliyur	5692								
830	KELAMANGALAM	Bettamugalalam	Kallikattam	6131								
831	KELAMANGALAM	Bettamugalalam	Gudisaiyur	4794								
832	KELAMANGALAM	Bettamugalalam	Kamarajapuram	4152								
833	KELAMANGALAM	Bettamugalalam	Pullahally	8207								
834	KELAMANGALAM	Bettamugalalam	Kadamakuttai	4954								
835	KELAMANGALAM	Bettamugalalam	Alehalli	7404								
836	KELAMANGALAM	Bettamugalalam	Mookankarai	4152								
837	KELAMANGALAM	Bettamugalalam	Southirikodu [basava	4259								
838	KELAMANGALAM	Bettamugalalam	Jayapuram	4152								
839	KELAMANGALAM	Bettamugalalam	Kambalam	4954								
840	KELAMANGALAM	Bettamugalalam	Bettamugalalam Ad	3916								
841	KELAMANGALAM	Bettamugalalam	Kannigapuram	4152								
842	KELAMANGALAM	Bettamugalalam	Doddamalam	4387								
843	KELAMANGALAM	Bettamugalalam	Thattakarai	8207								
844	KELAMANGALAM	Bettamugalalam	Kaduvanbedu Nadub	6195								
845	KELAMANGALAM	Bettamugalalam	Dasarakollai	5799								
846	KELAMANGALAM	Bettamugalalam	Siddapuram	8207								
847	KELAMANGALAM	Bettamugalalam	Kamagiri	9009								
848	KELAMANGALAM	Bettamugalalam	Anna Nagar	4152								
849	KELAMANGALAM	Bettamugalalam	Bolkakollai	6602								
850	KELAMANGALAM	Bettamugalalam	Melkaviyani	6998								
851	KELAMANGALAM	Bettamugalalam	Keelkaviyanai	5799								
852	KELAMANGALAM	Bettamugalalam	Boobanur	4152								
853	KELAMANGALAM	Bettamugalalam	Karukkakollai	7404								
854	KELAMANGALAM	Bettamugalalam	Kottayur	6998								
855	KELAMANGALAM	Bettamugalalam	Palaiyur Bolkakollai	6602								
856	KELAMANGALAM	Bettamugalalam	Melur	12262								
857	KELAMANGALAM	Bettamugalalam	Jawanachandiran	10614								
858	KELAMANGALAM	Bettamugalalam	Sukkalbedu	4152								
859	KELAMANGALAM	Bettamugalalam	Pokkalampatti	4291								
860	KELAMANGALAM	Bettamugalalam	Gullatti	8207								
861	KELAMANGALAM	Bettamugalalam	Doddadevanahally	4954								
862	KELAMANGALAM	Bettamugalalam	Gavanoor	4794								
863	KELAMANGALAM	Bettamugalalam	Pudukollai	4954								
864	KELAMANGALAM	Bettamugalalam	Manthakollai	4152								
865	KELAMANGALAM	Bettamugalalam	Doddi	4152								
866	KELAMANGALAM	Bettamugalalam	Kalazinarnagar	5157								
867	KELAMANGALAM	Bettamugalalam	D.Basavapuram	4451								
868	KELAMANGALAM	Bettamugalalam	Periyakallupalli	6195								
869	KELAMANGALAM	Sandanapalli	Santhanapalli	18425								
870	KELAMANGALAM	Sandanapalli	Thippasandiram	17355								
871	KELAMANGALAM	Sandanapalli	Jarkalatti	15344								
872	KELAMANGALAM	Sandanapalli	Kammandur	6762								
873	KELAMANGALAM	Sandanapalli	Bandaiyur	6367								
874	KELAMANGALAM	Sandanapalli	S.Kurupatti	18318								
875	KELAMANGALAM	Sandanapalli	Thalasur	11620								
876	KELAMANGALAM	Sandanapalli	Enimuchandram	11460								
877	KELAMANGALAM	Sandanapalli	Chinnabothi Kottai	11289								
878	KELAMANGALAM	Sandanapalli	Periya Budukottai	5393								
879	KELAMANGALAM	Sandanapalli	Sapraganapalli	17516								
880	KELAMANGALAM	Sandanapalli	Krishnapuram	12658								
881	KELAMANGALAM	Sandanapalli	Eniathikottai	3082								
882	KELAMANGALAM	Sandanapalli	Sampathnagar	4259								
883	KELAMANGALAM	Sandanapalli	Muthur	4120								
884	KELAMANGALAM	Sandanapalli	Chinnathi Kottai	6399								
885	KELAMANGALAM	Sandanapalli	Muthurayankottai	5489								
886	KELAMANGALAM	Sandanapalli	Kodagur	4451								

887	KELAMANGALAM	Sandanapalli	T.Ramnagar	4355										
888	KELAMANGALAM	Sandanapalli	Thirumalainagar	4526										
889	KELAMANGALAM	Sandanapalli	Santhanapalli S.C. Co	24182										
890	KELAMANGALAM	Sandanapalli	Sapraganapalli S.C C	12262										
891	KELAMANGALAM	Sandanapalli	ENNIATHIKOTTAI AD COLONY	7469										
892	KELAMANGALAM	Bairamangalam	Karugoundapalli	25723										
893	KELAMANGALAM	Bairamangalam	Aggondapalli	41570										
894	KELAMANGALAM	Bairamangalam	Madava Agraharam	20330										
895	KELAMANGALAM	Bairamangalam	Bairamangalam Colo	19528										
896	KELAMANGALAM	Kundumaranapalli	C.THAMANDRAPA LL	19228										
897	KELAMANGALAM	Kundumaranapalli	D.THAMANDRAPAL L	20705										
898	KELAMANGALAM	Kundumaranapalli	Kundumaranapalli	34165										
899	KELAMANGALAM	Kundumaranapalli	Sankaranarayanap ur	29179										
900	KELAMANGALAM	Kundumaranapalli	Pothasandiram	25220										
901	KELAMANGALAM	Kundumaranapalli	Manjalagiri	30014										
902	KELAMANGALAM	Kundumaranapalli	UDAYARPALLI	5628										
903	KELAMANGALAM	Kundumaranapalli	Laxmipuram	9480										
904	KELAMANGALAM	Anekollu	Doddabelur	30110										
905	KELAMANGALAM	Anekollu	Gopasandiram	9009										
906	KELAMANGALAM	Anekollu	Pudur	14199										
907	KELAMANGALAM	Anekollu	Lakshmipuram	5489										
908	KELAMANGALAM	Anekollu	Perumandapatty	9544										
909	KELAMANGALAM	Anekollu	T.Podur	10347										
910	KELAMANGALAM	Jakkeri	Jakkeri	32453										
911	KELAMANGALAM	Jakkeri	Onnukurukki	12594										
912	KELAMANGALAM	Jakkeri	Chinnatti	30581										
913	KELAMANGALAM	Jakkeri	Thavarakarai	14670										
914	KELAMANGALAM	Jakkeri	Virubatchi Nagar	16649										
915	KELAMANGALAM	Jakkeri	Mallepalayam	16146										
916	KELAMANGALAM	Jakkeri	Vasanthapuram	8143										
917	KELAMANGALAM	Jakkeri	Oddappakottai	8207										
918	KELAMANGALAM	Bommathatanoor	Bommathathanoor	7608										
919	KELAMANGALAM	Bommathatanoor	Kempatti	9983										
920	KELAMANGALAM	Bommathatanoor	Pachappanatti	12391										
921	KELAMANGALAM	Bommathatanoor	Jangalpalayam	11256										
922	KELAMANGALAM	Bommathatanoor	Kullatti	6367										
923	KELAMANGALAM	Bommathatanoor	Lakshmipuram	10689										
924	KELAMANGALAM	Bommathatanoor	Kalinaickenahalli	9544										
925	KELAMANGALAM	Bommathatanoor	Gettur	4184										
926	KELAMANGALAM	Bommathatanoor	Konasandiram	6934										
927	KELAMANGALAM	Bommathatanoor	Pudur	8207										
928	KELAMANGALAM	Bommathatanoor	Ramapuram	5799										
929	KELAMANGALAM	Bommathatanoor	Guttur	7469										
930	KELAMANGALAM	Bommathatanoor	Irulapatty	6902										
931	KELAMANGALAM	Bithireddi	Bithireddi	18661										
932	KELAMANGALAM	Bithireddi	G.Narasapuram	16713										
933	KELAMANGALAM	Bithireddi	A.Kothapalli	17687										
934	KELAMANGALAM	Bithireddi	Poonapalli	17719										
935	KELAMANGALAM	Bithireddi	Girisettipatti	11460										
936	KELAMANGALAM	Bithireddi	Vannipuram	7404										
937	KELAMANGALAM	Bithireddi	Jayanagar	7800										
938	KELAMANGALAM	Bodichipalli	Iruthaiam	26226										
939	KELAMANGALAM	Bodichipalli	Anchetty Durgam	20972										
940	KELAMANGALAM	Bodichipalli	Kaduthanapalli	22406										
941	KELAMANGALAM	Bodichipalli	Bodichipalli	27638										
942	KELAMANGALAM	Bodichipalli	Anisonai	28601										
943	KELAMANGALAM	Bodichipalli	Neruppukottai	17420										

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Chief Engineer, TWAD Board, Vellore

944	KELAMANGALAM	Bodichipalli	Senthil Nagar	20972								
945	KELAMANGALAM	Bodichipalli	Chikkannakuttai	8207								
946	KELAMANGALAM	H.Settipalli	H.Settipalli	27799								
947	KELAMANGALAM	H.Settipalli	Hosapuram	17420								
948	KELAMANGALAM	H.Settipalli	Kottur	22780								
949	KELAMANGALAM	H.Settipalli	Maruthinagar	10721								
950	KELAMANGALAM	H.Settipalli	H. Settipalli S.C. Colo	24385								
951	KELAMANGALAM	Nagamangalam	Kothur	12861								
952	KELAMANGALAM	Nagamangalam	Kadoor	9748								
953	KELAMANGALAM	Nagamangalam	Periangadunai	8004								
954	KELAMANGALAM	Nagamangalam	Chinna Nagadunai	12594								
955	KELAMANGALAM	Nagamangalam	Chinna Thandaragun	16649								
956	KELAMANGALAM	Nagamangalam	Laxmipuram	8004								
957	KELAMANGALAM	Nagamangalam	Dasanapuram	13696								
958	KELAMANGALAM	Nagamangalam	Neelagiri	3285								
959	KELAMANGALAM	Nagamangalam	Varaganapalli	25156								
960	KELAMANGALAM	Nagamangalam	Sigaralapalli	8507								
961	KELAMANGALAM	Nagamangalam	Chikkagoundanoor	11759								
962	KELAMANGALAM	Nagamangalam	Nagamangalam	22845								
963	KELAMANGALAM	Nagamangalam	Rajajinagar	8207								
964	KELAMANGALAM	Nagamangalam	Neelagiri AD Colony	5061								
965	KELAMANGALAM	Udedurgam	U.Kothapalli	16007								
966	KELAMANGALAM	Udedurgam	Kurubarapalli	12262								
967	KELAMANGALAM	Udedurgam	U.Puram	11620								
968	KELAMANGALAM	Udedurgam	Peria Thandragunta	12658								
969	KELAMANGALAM	Udedurgam	Koneganapalli	16114								
970	KELAMANGALAM	Udedurgam	Vellichandai	8410								
971	KELAMANGALAM	Udedurgam	Kommepalli	5799								
972	KELAMANGALAM	Udedurgam	Koosthanapalli	12733								
973	KELAMANGALAM	Udedurgam	Karipuram	4259								
974	KELAMANGALAM	Udedurgam	Uppupallam	10251								
975	KELAMANGALAM	Udedurgam	Vannipuram	7404								
976	KELAMANGALAM	Udedurgam	U PURAM AD COLONY	4451								
977	KELAMANGALAM	Thumjepalli	Thumjepalli	18928								
978	KELAMANGALAM	Thumjepalli	Guttur	16275								
979	KELAMANGALAM	Thumjepalli	Beeranoor	9009								
980	KELAMANGALAM	Thumjepalli	Pudur	6195								
981	KELAMANGALAM	Thumjepalli	Ullatti	12262								
982	KELAMANGALAM	Thumjepalli	Adakkam	15911								
983	KELAMANGALAM	Thumjepalli	Pavadrappatty	14306								
984	KELAMANGALAM	Thumjepalli	Chinnaullukurukki	13396								
985	KELAMANGALAM	Thumjepalli	Ullukurukki	33031								
986	KELAMANGALAM	Thumjepalli	Ullukurikkicolony	12498								
987	KELAMANGALAM	Thumjepalli	Govindapuram	5799								
988	KELAMANGALAM	Dodda Thimmanahally	Muthampatty	31586								
989	KELAMANGALAM	Dodda Thimmanahally	Mollampatti	14434								
990	KELAMANGALAM	Dodda Thimmanahally	Dodda Thimmanahal	31319								
991	KELAMANGALAM	Dodda Thimmanahally	Edavanahally	25124								
992	KELAMANGALAM	Dodda Thimmanahally	Veppalampatty	29949								
993	KELAMANGALAM	Dodda Thimmanahally	Dinnur	14038								
994	KELAMANGALAM	Dodda Thimmanahally	D.Gollahalli	7939								
995	KELAMANGALAM	Dodda Thimmanahally	Paraiyur - Kadirampa	16114								
996	KELAMANGALAM	Dodda Thimmanahally	Lakshampuram	12027								
997	KELAMANGALAM	Dodda Thimmanahally	Neruppukottai	3788								
998	KELAMANGALAM	Dodda Thimmanahally	Masal Dinnur	8143								
999	KELAMANGALAM	Dodda Thimmanahally	Pethampatti	4323								
1000	KELAMANGALAM	Dodda Thimmanahally	Posarikottai	4355								
1001	KELAMANGALAM	Dodda Thimmanahally	Nallur	19528								

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Chief Engineer, TWAD Board, Vellore

1002	KELAMANGALAM	Dodda Thimmanahally	Poosarikottai Group House	4355								
1003	KELAMANGALAM	Thavarakkarai	Gendiganapalli	13867								
1004	KELAMANGALAM	Thavarakkarai	Gergur	4152								
1005	KELAMANGALAM	Thavarakkarai	Osatti	29842								
1006	KELAMANGALAM	Thavarakkarai	Thavarakarai	14670								
1007	KELAMANGALAM	Thavarakkarai	Geratti	13503								
1008	KELAMANGALAM	Thavarakkarai	Malsonai	15108								
1009	KELAMANGALAM	Thavarakkarai	Chinnamalasonai	5157								
1010	KELAMANGALAM	Kottaiulimangalam	Kottaiulimangalam	20330								
1011	KELAMANGALAM	Kottaiulimangalam	Somananjapalayam	15408								
1012	KELAMANGALAM	Kottaiulimangalam	Rangasandiram	14306								
1013	KELAMANGALAM	Kottaiulimangalam	Anandnagar	4152								
1014	KELAMANGALAM	Erudukottai	Erudukottai	15312								
1015	KELAMANGALAM	Erudukottai	Giriyanaipalli	13503								
1016	KELAMANGALAM	Erudukottai	Samandankottai	12658								
1017	KELAMANGALAM	Erudukottai	Thottikuppam	11460								
1018	KELAMANGALAM	Erudukottai	Sakkilipalayam	8143								
1019	KELAMANGALAM	Erudukottai	Arthagur	11053								
1020	KELAMANGALAM	Erudukottai	T.Gurubatti	12262								
1021	KELAMANGALAM	Erudukottai	Beelalam	15676								
1022	KELAMANGALAM	Erudukottai	Bogasandram	14670								
1023	KELAMANGALAM	Erudukottai	Oddarapalayam	11856								
1024	KELAMANGALAM	Erudukottai	Vannipuram	11856								
1025	KELAMANGALAM	Erudukottai	Chinnarandoddi	7800								
1026	KELAMANGALAM	Erudukottai	Melur	13664								
1027	KELAMANGALAM	Erudukottai	Seekuttai	6602								
1028	KELAMANGALAM	Erudukottai	Basavapuram	5960								
1029	KELAMANGALAM	Erudukottai	Alahalli	14199								
1030	KELAMANGALAM	Erudukottai	Medatti	4954								
1031	KELAMANGALAM	Erudukottai	Laxmipuram	4152								
1032	KELAMANGALAM	Erudukottai	Melpalayam	8207								
1033	KELAMANGALAM	Hanumanthapuram	Hanumanthapuram	10047								
1034	KELAMANGALAM	Hanumanthapuram	Chinnathippanoor	10614								
1035	KELAMANGALAM	Hanumanthapuram	Periathippanoor	6195								
1036	KELAMANGALAM	Hanumanthapuram	Nemileri	11791								
1037	KELAMANGALAM	Hanumanthapuram	Arasur	5393								
1038	KELAMANGALAM	Hanumanthapuram	Kamasandiram	4259								
1039	KELAMANGALAM	Hanumanthapuram	Siddalingankottai	4590								
1040	KELAMANGALAM	Hanumanthapuram	Kochuvadi	11856								
1041	KELAMANGALAM	Hanumanthapuram	Nelkundi	14306								
1042	KELAMANGALAM	Hanumanthapuram	Athimarathupallam	4152								
1043	KELAMANGALAM	Hanumanthapuram	Kavakuttai	4152								
1044	KELAMANGALAM	Hanumanthapuram	Unchetti	13803								
1045	KELAMANGALAM	Hanumanthapuram	Ayyur	4590								
1046	KELAMANGALAM	Hanumanthapuram	Thimmanoor	4451								
1047	KELAMANGALAM	Hanumanthapuram	Kothapalli	18318								
1048	KELAMANGALAM	Hanumanthapuram	Laxmipuram	4152								
1049	KELAMANGALAM	Hanumanthapuram	Ayyur SC Colony	10112								
1050	KELAMANGALAM	Hanumanthapuram	Koochuvadi Murugan koil	8881								

Sl No	Name of Corporation / Municipality / Town Panchayat/ Union	Name of Panchayat	Name of Habitation	Allotted Qty. as per Scope (Inter) In Litre	Supplied Quantity for the Month of						Monthly Qty.	Total Quantity supplied Annually
					1	2	..	..	..	31		
C	Tail End Beneficiaries											
1	VEPPANAPALLI	Bathimadagu	Bathimadagu	17687								
2	VEPPANAPALLI	Bathimadagu	Gudea Goundanur	8806								
3	VEPPANAPALLI	Halekundani	ALAGAPURAM	2782								
4	VEPPANAPALLI	Kuriyanapalli	Kariasagaram	17687								
5	VEPPANAPALLI	Kundarapalli	Nandupatti	4055								
6	VEPPANAPALLI	Kundarapalli	Panhali nagar	4590								
7	VEPPANAPALLI	Manavarapalli	Gollapalli	21839								
8	VEPPANAPALLI	Manavarapalli	Ebbiri	10454								
9	VEPPANAPALLI	Marasandiram	Nedumaruthi	30345								
10	VEPPANAPALLI	Sigaramanapalli	Konganapalli	24289								
11	VEPPANAPALLI	Samanthamalai	Samanthamalai	20801								
12	VEPPANAPALLI	Theertham	Dharanisardiram	16146								
13	VEPPANAPALLI	Veppanapalli	Thalli Kothur	11085								
14	SHOOLAGIRI	Banganahalli	Banganahalli & Gettur	18725								
15	SHOOLAGIRI	Banganahalli	Ramapuram	26429								
16	SHOOLAGIRI	Banganahalli	Kothakurukki	25188								
17	SHOOLAGIRI	Samanapalli	Keeranapalli	12262								
18	SHOOLAGIRI	Ayyarnapalli	Karadikuttai	17923								
19	SHOOLAGIRI	Ayyarnapalli	Chinna mettrai	4259								
20	SHOOLAGIRI	Kommepalli	Singiripalli	13268								
21	SHOOLAGIRI	Maruthandapalli	Pulivarasai	9812								
22	SHOOLAGIRI	Maruthandapalli	Kamadhenunagar	4055								
23	SHOOLAGIRI	Kumbalam	Periakuthi	10251								
24	SHOOLAGIRI	Kumbalam	Kadathur	15815								
25	SHOOLAGIRI	Marandapalli	Kattikinthanapalli	32453								
26	SHOOLAGIRI	Marandapalli	Mythandapalli	30484								
27	SHOOLAGIRI	Koneripalli	Kurubarthapalli	16478								
28	SHOOLAGIRI	Koneripalli	Sapadi Road	14809								
29	SHOOLAGIRI	Shoolagiri	Bogipuram	10251								
30	SHOOLAGIRI	Immidinaickenpalli	Seekalapali	39119								
31	SHOOLAGIRI	Melumalai	Chinnabikkanapalli	16382								
32	SHOOLAGIRI	Pasthalapalli	Giddampalayam	7437								
33	HOSUR	Baliganapalli	Deveripalli	42607								
34	HOSUR	Baliganapalli	Baliganapalli	27938								
35	HOSUR	Masinakkanapalli	Masinakkanapalli	50675								
36	HOSUR	Masinakkanapalli	Panchatchipuram	26290								
37	HOSUR	Palavanapalli	Adavanapalli	9448								
38	HOSUR	Palavanapalli	Pattiganapalli	7233								
39	HOSUR	Sevaganapalli	Chichuruganapalli	17120								
40	HOSUR	Sevaganapalli	Kothapalli	64040								
41	HOSUR	Sevaganapalli	Sevaganapalli	46759								
42	HOSUR	Sevaganapalli	Kakkanur	47433								
43	HOSUR	Sevaganapalli	Sokkarasanapalli	27264								
44	HOSUR	Sevaganapalli	Kodiyalam	29810								
45	HOSUR	Sevaganapalli	Kothapalli AD Colony	4259								
46	HOSUR	Muthali [Pedda]	Dasiripalli Dinna	25723								
47	HOSUR	Muthali [Pedda]	Thatiganapalli	19292								
48	HOSUR	Kelavarapalli	Peddagolu	42340								
49	HOSUR	Kelavarapalli	Kelavarapalli	26761								
50	HOSUR	Kelavarapalli	Chinnakollu	9213								
51	HOSUR	Kelavarapalli	Punungandoddi	26697								
52	HOSUR	Kelavarapalli	Siddanapalli	26525								
53	HOSUR	Kelavarapalli	Narikuravar Colony	3852								
54	HOSUR	Mookandapalli	Munishwar Nagar	17484								
55	HOSUR	Mookandapalli	Mookandapalli	121049								
56	HOSUR	Mookandapalli	Arasanatti	76773								
57	HOSUR	Mookandapalli	Motham Agraharam	41002								
58	HOSUR	Mookandapalli	Kothur	25755								
59	HOSUR	Mookandapalli	Dharga Colony	28002								
60	HOSUR	Mookandapalli	Nethaji Nagar	65687								
61	HOSUR	Mookandapalli	Anjaneya Nagar	68566								
62	HOSUR	Mookandapalli	Barathi Nagar	10347								
63	HOSUR	Mookandapalli	Surya Nagar	72418								
64	HOSUR	Mookandapalli	Dwaraga Nagar	3649								

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65	HOSUR	Mookandapalli	Gandhi Nagar	3413										
66	HOSUR	Mookandapalli	M.M.Nagar	4055										
67	HOSUR	Mookandapalli	Munishwar Nagar	4259										
68	HOSUR	Mookandapalli	Nethaji Nagar	4259										
69	HOSUR	Mookandapalli	OM Santhi Nagar	3413										
70	HOSUR	Mookandapalli	Samanathapuram	4055										
71	HOSUR	Zuzuvadi	Zuzuvadi	62402										
72	HOSUR	Zuzuvadi	Bedrepalli	60797										
73	HOSUR	Zuzuvadi	Chinna Elasagiri	80988										
74	HOSUR	Zuzuvadi	Zuzuvadi Colony	80796										
75	HOSUR	Zuzuvadi	Santhapuram	37750										
76	HOSUR	Zuzuvadi	Annamalai Nagar	73124										
77	HOSUR	Zuzuvadi	Senthil Nagar	4152										
78	HOSUR	Zuzuvadi	Ganga Nagar	16275										
79	HOSUR	Zuzuvadi	Kamaraj Nagar	39355										
80	HOSUR	Zuzuvadi	C Kamarajnagar	4055										
81	HOSUR	Zuzuvadi	Poonganagar	4259										
82	HOSUR	Begepalli	Begepalli	17484										
83	HOSUR	Begepalli	Bagur	23786										
84	HOSUR	Begepalli	N.Agraharam	31651										
85	HOSUR	Begepalli	G.Agraharam	20533										
86	HOSUR	Begepalli	Oddarpalayam	15312										
87	HOSUR	Begepalli	Ezhil Nagar	15676										
88	HOSUR	Begepalli	Sri Rajeswari Layout	55704										
89	HOSUR	Begepalli	Begepalli Colony	4055										
90	THALLY	Achubalu	Bellalam	11192										
91	THALLY	Komaranapalli	Komaranapalli	9416										
92	THALLY	Komaranapalli	Kothajeegur	27499										
93	THALLY	Gummalapuram	Ganganapalli	15440										
94	THALLY	Agalakotta	Karagur	2279										
95	THALLY	Agalakotta	Agalakotta	8881										
96	THALLY	Madakkal	Mookandagam	18725										
97	THALLY	Madakkal	Thimmanatti	3488										
98	THALLY	Madakkal	Madakkal	21475										
99	THALLY	Madakkal	T.Sholaguntha	21068										
100	THALLY	Madakkal	Bellalam	4794										
101	THALLY	Madakkal	Manjikarai	17120										
102	THALLY	Madakkal	Ulibenda	19292										
103	THALLY	Madakkal	Sembengimarandoddi	19324										
104	THALLY	Madakkal	Hosadoddi	19528										
105	THALLY	Madakkal	M.Gollapalli	18725										
106	THALLY	Madakkal	Karadikkal	18725										
107	THALLY	Madakkal	Arulnatham	15408										
108	THALLY	Madakkal	Malligabaidoddi	4794										
109	THALLY	Madakkal	Giddakottai	3488										
110	THALLY	Madakkal	Varadagundandoddi	3788										
111	THALLY	Madakkal	Madaiyandoddi	3788										
112	THALLY	Madakkal	Venkatacharidoddi	1744										
113	THALLY	Madakkal	Madeswarakovildoddi	2140										
114	THALLY	Madakkal	Kempegowdandoddi	1637										
115	THALLY	Madakkal	Purandhadoddi	1605										
116	THALLY	Javalagiri	Sennamangalam	11192										
117	THALLY	Javalagiri	Nendimangalam	9009										
118	THALLY	Javalagiri	Palayam	6602										
119	THALLY	Javalagiri	Reagimandoddi	4794										
120	THALLY	Javalagiri	Gobasanthiram	5799										
121	THALLY	Javalagiri	Sellepuram	9812										
122	THALLY	Javalagiri	Gollapalli	11460										
123	THALLY	Javalagiri	Panasamanadotti	13033										
124	THALLY	Javalagiri	Beemachandiram	20769										
125	THALLY	Javalagiri	Jowlagiri	20202										
126	THALLY	Javalagiri	Anagiri	6602										
127	THALLY	Javalagiri	Jowlagiri Aoc	8207										
128	THALLY	Javalagiri	Chennamalam Colony	6602										
129	THALLY	Javalagiri	Badrahalli	4120										
130	THALLY	Javalagiri	Yappamandoddy	4259										
131	THALLY	Javalagiri	Vathandoddy	4055										
132	THALLY	Javalagiri	Ashram	4120										
133	THALLY	Javalagiri	Gebbaradoddi	4954										
134	THALLY	Natrampalayam	Poonthottapallam	4590										
135	THALLY	Doddamanchi	Biligundu	8977										
136	THALLY	Doddamanchi	Doddiyur	4152										
137	THALLY	Doddamanchi	Koochavur	4858										

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138	THALLY	Doddamanchi	Kullatti	4794									
139	THALLY	Doddamanchi	Kalikuttai	3381									
140	THALLY	Doddamanchi	Cheritheru	3884									
141	THALLY	Doddamanchi	Melgiriappanur	4794									
142	THALLY	Doddamanchi	Kodaiyur	4152									
143	THALLY	Doddamanchi	Sithappanur	2782									
144	THALLY	Doddamanchi	Kodithimmu	4794									
145	THALLY	Doddamanchi	Kannatti	5692									
146	THALLY	Doddamanchi	Thimmanur	5190									
147	THALLY	Doddamanchi	Poosarikottai	4087									
148	THALLY	Doddamanchi	Karagur	2782									
149	THALLY	Doddamanchi	Periyur	4055									
150	THALLY	Doddamanchi	Giriappanur	2375									
151	THALLY	Doddamanchi	Maddam	2782									
152	THALLY	Doddamanchi	Pakkirishialikottai	5329									
153	THALLY	Doddamanchi	Kappakooli	6837									
154	THALLY	Doddamanchi	Vannapuram	2846									
155	THALLY	Doddamanchi	Doddamanchi	4055									
156	THALLY	Doddamanchi	Koilud	2846									
157	THALLY	Doddamanchi	Chikkamanchi	13065									
158	THALLY	Doddamanchi	Arthakkal	4120									
159	THALLY	Doddamanchi	Channaiyankotta	4055									
160	THALLY	Doddamanchi	Kodikarai	4259									
161	THALLY	Doddamanchi	Paraiyur(Indranagar)	4259									
162	THALLY	Doddamanchi	Pacalam	3178									
163	THALLY	Doddamanchi	Pudur	2750									
164	THALLY	Doddamanchi	Kempakkarai	3852									
165	THALLY	Doddamanchi	Naduvattam	2408									
166	THALLY	Doddamanchi	Bellatti	2846									
167	THALLY	Doddamanchi	Narayanappan Kottai	3253									
168	THALLY	Doddamanchi	Prappa Kottai	2375									
169	THALLY	Doddamanchi	Karaganatti	3820									
170	THALLY	Doddamanchi	Kadur	4055									
171	THALLY	Doddamanchi	Poosari Theru	4152									
172	THALLY	Doddamanchi	Paramathi	4120									
173	THALLY	Doddamanchi	Veerabadran Kota	4184									
174	THALLY	Doddamanchi	Kodakarai	10251									
175	THALLY	Doddamanchi	Thurkatti	4055									
176	THALLY	Palayamkottai	Gundalam	9042									
177	THALLY	Kottaiyur	Athinatham	15579									
178	THALLY	Kottaiyur	Nurthusamymalai	4794									
179	THALLY	Kottaiyur	Mallahalli	13771									
180	THALLY	Kottaiyur	Kottaiyur	15173									
181	THALLY	Kottaiyur	Anumanthapuram	12391									
182	THALLY	Kottaiyur	Mattiyur	4794									
183	THALLY	Kottaiyur	Jeemanatham	16114									
184	THALLY	Kottaiyur	Kumarathanapalli	12658									
185	THALLY	Kottaiyur	Nayakankottai - H	5596									
186	THALLY	Kottaiyur	Thanda	4355									
187	THALLY	Kottaiyur	Beernapalli	16917									
188	THALLY	Kottaiyur	Ondur	16382									
189	THALLY	Kottaiyur	Chinnamallahalli	19763									
190	THALLY	Kottaiyur	Chittappandoddi	7608									
191	THALLY	Kottaiyur	Pudur - Gurupuram	4794									
192	THALLY	Kottaiyur	Indira Nagar	4087									
193	THALLY	Kottaiyur	Podur	4120									
194	THALLY	Kottaiyur	Sivapuram - H	4794									
195	THALLY	Kottaiyur	Budradoddi	4152									
196	THALLY	Kottaiyur	Kalverandoddi	4152									
197	THALLY	Kottaiyur	Kalainagar	4055									
198	THALLY	Kottaiyur	Chinnappan Doddi	4259									
199	THALLY	Kottaiyur	Basavan Puram	4259									
200	THALLY	Kottaiyur	Jadayappan Doddi	5596									
201	THALLY	Kottaiyur	Guruvan Doddi	4055									
202	THALLY	Kottaiyur	Ramathas Kottai@ Poosari Do	5799									
203	THALLY	Kottaiyur	Jodukarai	4120									
204	THALLY	Kottaiyur	Muniyappan Doddi	4087									
205	THALLY	Kottaiyur	Kottaiyur AD Colony	12123									
206	THALLY	Thaggatti	Arthakkal	38220									
207	THALLY	Thaggatti	Pandurangandoddi	22513									
208	THALLY	Sarandapalli	Mayanayakkanhali	17687									
209	THALLY	Salivaram	Konmanganapalli	18725									

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210	THALLY	Ballapalli	Ballapalli	15911									
211	THALLY	Karanadapalli	Muniboyandoddi	4451									
212	THALLY	Karanadapalli	Iyyanpuram Doddi	15879									
213	THALLY	Karanadapalli	Karandapalli	14434									
214	THALLY	Karanadapalli	Mulvanapalli	13867									
215	THALLY	Karanadapalli	Doddabilimudirai	13600									
216	THALLY	Karanadapalli	Jammanaickendoddi	4152									
217	THALLY	Karanadapalli	Kadichipalli	13065									
218	THALLY	Karanadapalli	Bailvanadoddi	4259									
219	THALLY	Karanadapalli	K.Hosavur	18318									
220	THALLY	Karanadapalli	Katchuvadi	6762									
221	THALLY	Karanadapalli	Belehaggu	15911									
222	THALLY	Karanadapalli	Kasinaickendoddi	9448									
223	THALLY	Karanadapalli	Chinnathamnidoddi	5799									
224	THALLY	Karanadapalli	Chikkathimmadoddi	4055									
225	THALLY	Karanadapalli	Marappandoddi	4152									
226	THALLY	Karanadapalli	Ramapuram	4259									
227	THALLY	Karanadapalli	Chomalanaickendoddi	4451									
228	THALLY	Karanadapalli	Gowracharidoddi	4055									
229	THALLY	Kakkadasam	K.Mallachandram	10614									
230	THALLY	Manjukondapalli	Kesthur	24182									
231	THALLY	Manjukondapalli	Munjukondapalli	21004									
232	THALLY	Manjukondapalli	Lakshipuram	5596									
233	THALLY	Manjukondapalli	Kaveripuram	4794									
234	THALLY	Manjukondapalli	Belupatti	24557									
235	THALLY	Manjukondapalli	Ananthipuram	17516									
236	THALLY	Manjukondapalli	Nandipuram	5393									
237	THALLY	Manjukondapalli	Karadikkal	4794									
238	THALLY	Manjukondapalli	Narayanapuram	4451									
239	THALLY	Manjukondapalli	Kodipuram	4387									
240	THALLY	Manjukondapalli	Basavanpuram	4152									
241	THALLY	Thandarai	Gandhi Nagar	4954									
242	THALLY	Urigam	Udubarani	20362									
243	THALLY	Urigam	Muthikarai	10315									
244	THALLY	Urigam	Urigam	27767									
245	THALLY	Urigam	Kovalli	41869									
246	THALLY	Urigam	Billikkal	9448									
247	THALLY	Urigam	Veerandoddi	6495									
248	THALLY	Urigam	Venkatandoddi	2750									
249	THALLY	Urigam	Malaikelerannadoddi	2482									
250	THALLY	Urigam	Chikka Veerappadoddi	2878									
251	THALLY	Urigam	Muniyappa Doddi	3017									
252	THALLY	Urigam	Urigam Colony	20030									
253	THALLY	Sathanur	Adivisamypuram	4451									
254	THALLY	Sathanur	Uchanapalli	25188									
255	THALLY	Achubalu	Kadudoddi	1744									
256	THALLY	Chudasandiram	Chudasandiram	8111									
257	THALLY	Unisenatham	Unisenatham	11963									
258	THALLY	Gummalapuram	Jeegur	16414									
259	THALLY	Gopasandiram	Basavanapuram	4622									
260	THALLY	Kuppatti	Silibili Managalam	18960									
261	THALLY	Thally Kothanur	T.Kothanur	23519									
262	THALLY	Palayamkottai	Bandaiyoor	4152									
263	THALLY	Padiganalam	Doddi	8410									
264	KELAMANGALAM	Bettamugalalam	Pudur	6334									
265	KELAMANGALAM	Bettamugalalam	Gethahally	16478									
266	KELAMANGALAM	Bettamugalalam	Palaiyur Tholuvabetta	5799									
267	KELAMANGALAM	Bettamugalalam	Tholuvabetta	17719									
268	KELAMANGALAM	Rathnagiri	Sathanakkal	12262									
269	KELAMANGALAM	Doddamettrai	Mettarai	12861									
270	KELAMANGALAM	Kandaganapalli	N.T.R.Nagar	4055									
271	KELAMANGALAM	Koppakarai	Thenkalkuzhi	4954									
272	KELAMANGALAM	Koppakarai	Chinnakanavaipudur	10422									
273	KELAMANGALAM	Koppakarai	Shoolagunta	11289									
274	KELAMANGALAM	Erudukottai	Maniambadi	18960									
275	KELAMANGALAM	Erudukottai	Basipalli	4152									
276	KELAMANGALAM	H.Settipalli	Jothipuram	15815									
277	KELAMANGALAM	Jakir Karupalli	Kamaiyur	10047									
278	KELAMANGALAM	Bairamangalam	Bairamangalam	24385									
279	KELAMANGALAM	Dodda Thimmanahally	Konampatty	20266									
280	KELAMANGALAM	Anekollu	Anekollu	15376									
281	KELAMANGALAM	Bommathatanoor	Kottatti	16275									

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282	KELAMANGALAM	Bevanatham	Periabaleguli	10015									
				237464									
283	KARIMANGALAM	Bikkanahally	Gettukottai	5157									
284	KARIMANGALAM	Jaggasamuthiram	Paraikottai	16275									
285	KARIMANGALAM	Jittandahalli	Banni Kottai	4954									
				26386									

VIII. SPECIAL CONDITIONS OF CONTRACT

1. The pipes and specials, Mechanical, Electrical, ICA and Miscellaneous spares and tools, test equipment and consumables etc., are to be procured from the vendors on approval of Quality Assurance plan (QAP) by the Engineer in-charge under Hogenakkal Water supply and Fluorosis Mitigation project.
2. Monthly / bimonthly current consumption details for both HT & LT supplies are to be collected and submitted for preparation of TANGEDCO bill within 3 days from the generation of bill to avoid Belated Payment Surcharge (BPSC) or else the BPSC has to be borne by the contractor.
3. Working of all type of Flow Meter / Water meter should be ensured and if any repairs noticed, it should be rectified immediately so as to furnish the exact quantity of water supplied without any dispute. During the rectification period of water meter / flow meter, the quantity of supply will be arrived based on actual pumping hours or by discharge in case of gravity flow. If the flow meter / water meter is not repaired within 2 days, a penalty of Rs. 500/- per day will be levied until rectification.
4. Repairs to Horizontal split casing Centrifugal and open well submersible pumpset should be rectified within seven days and shall be maintained in working condition always. If the pump sets are not repaired within seven days, a fine of Rs.5000/- will be levied for each day thereafter.
5. Repairs to vertical turbine pump set should be rectified within thirty days and shall be maintained in working condition always. If the pump sets are not repaired within thirty days, a fine of Rs. 10,000/- will be levied for each day thereafter.
6. At any instance, disinfection of water should be done without interruption. At each Re-chlorination station two chlorine filled cylinders should be available in operating condition. In case of non availability of chlorine cylinders in working conditions, a fine of Rs.5000/- will be imposed daily till the filled chlorine cylinders are made available.
7. If chlorination is not done at any instance when the chlorine and power supply is available or due to non availability of chlorine a fine Rs.10,000/- per day will be levied.
8. The quantity of water drawn / supplied will be calculated monthly, based on the average quantity of water supplied daily. If the monthly quantity calculated is less than the average quantity, then liquidated damages at the proportionate rate of Rs.25,000/- per MLD of short supply in quality will be levied and will be deducted in the ensuring bill of the contractor.
9. While taking over of the works for O&M, if any particular zone / area is not in a position to supply water due to replacement, relaying of pipe lines, construction of any structure, pump set installations, power connection, which are to be carried out by the Engineer, payment for the O&M of works as per the rate in Schedule Item No. 1 will be deducted for the proportionate quantity of water to be supplied for that area until the works are completed and taken over by the contractor for O&M.
10. Liquidated damages for Rs. 25,000/- per MLD of supply or part thereof will be levied by the Engineer for the quantity not supplied.
 - (a) When the leak or burst not attended promptly and the time of restoration of water supply exceeds 24 hours, then for the quantity not supplied after 24 hours in that particular reach till the rectification and restoration of water supply is made.

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- (b) When agreed operating staffs were not engaged and leading to non supply or lesser supply of water to any Habitation / Village Panchayat, Town Panchayat or Municipality and / or wasted by over flow of Master Balancing Reservoirs (MBRs) or sumps.
 - (c) When any break done occurs due to non performance of mandatory preventive maintenance
11. If the contractor has not initiated any action within 36 hours from the incidence of leak or burst, the same will be rectified with other agencies and double the cost of the rectification charges with centage at 23.5% including eligible taxes will be deducted from the contractor's bill apart from the LD for the non supplied quantity until rectification and restoration as per SI.No. 10 (a).
12. Liquidated Damages is exempted to the contractor for the lesser quantity of water supplied to the beneficiaries on the following reasons which should also be approved by the Engineer / Employer.
- (a) Non availability of power supply for more than 6 hours in respect of 18 hours designed pumping and 12 hours in respect of 12 hours designed pumping or in the case of staggered power supply for the above mentioned designed pumping hours.
 - (b) Any leak or burst when attended and water supply is restored within 24 hours.
 - (c) When the availability of water at the drawal of first tapping point of this package is less than the designated.
 - (d) Shifting and replacement of pipeline due to development activities of other departments.
 - (e) Any force, Majeure situation such as riots, War, Earthquake, Land slide, Cloud Burst etc., which leads to non – operating condition of the equipment.
13. In case of any damages / loss / fire, the contractor has to lodge police complaints, and the contractor is responsible to set right the damages / loss etc., immediately and ensure water supply, for which adequate insurance coverage should be provided or else the contractor has to bear the cost on his own.
14. The contractor should establish full watch and ward of the infrastructure and is responsible for prevention of any illegal tapping from any of the pipes line and has to remove the connection at his own cost and has to initiate and take legal action through police if required with duly informing the Engineer.
15. Water supply to additional OHTs has to be made by providing necessary interconnection arrangements as directed by the Engineer / Employer as and when required.
16. The contractor is liable to be prosecuted under "Section 430 of IPC" in case of unauthorised stoppage of water supply.
17. Price Escalation is not allowed.
18. Necessary periodical inspection once in a year should be arranged by the contractor for the verification / calibration of all Mechanical, Electrical, ICA equipments, including surge protection system, equipments etc., and the test result should be submitted to the Executive Engineer in charge (Relay test etc.,). A fine of Rs. 5,00,000 per year will be levied for any default in the above periodical inspection and tests as per standards in respect of Package IV and Package V only.
19. All the formalities with respect to the renewal of licences should be done by the contractor like CEIG inspection, factory licence, Department of Explosives for chlorine cylinder and other statutory departments for continuous functioning of the project and will be reimbursed by TWAD Board during the Operation and Maintenance period.

20. Preventive maintenance has to be carried out periodically as specified in the O&M manual forming part of the contract specification to safeguard the plant to prevent any break down. Therefore if any break down occurs due to non performance of mandatory preventive maintenance, then the consecutive defect or break down of plant has to be repaired or replaced at the contractor's own cost as per the QAP approved by the Engineer in charge.
21. Insurance for the works, contractor's operating and supervisory staff, third party, employer's personnel and the Employer's risk should be taken from the date of start of taking over of works for O&M and documents to be submitted within 15 days of issue of work order. This should be renewed every year without any lapse till the period of completion. Due to default of insurance, any loss to the property or life will have to be suitably compensated at contractors own cost and risk as per the rules in force or as ordered by the court of law and TWAD Board will not take any responsibility in such cases
22. The contractor should furnish the list of employees, with their names, proposed to be employed by him. Unauthorized persons other than reported should not enter in the scheme's premises in the capacity as agent etc., But the substitute of an employee could be permitted with specific orders.
23. No employee of the contractor shall stake claim for employment in TWAD Board at any point of time because of having worked as labourer in this work. The contractor shall get an undertaking from his employee to this effect and furnish it to the Executive Engineer
24. Employment of child labour is forbidden
25. If the employees sustain any injury while on duty due to accidents, no compensation will be paid by the TWAD Board.
26. The contractors shall be fully responsible for operating and maintaining the works as a whole in a safe & secure manner.
27. The contractor should ensure designed quantity of supply to all the beneficiaries. Contractor should maintain register showing the quantity of water delivered to each panchayat, duly signed by a responsible person of the local body concerned.
28. The agreement between the parties shall be for a period of 48 months, provided the contractor has in his possession a valid licence under the Contract Labour (Regulation and Abolition) Act.
29. If the contractor does not have a valid licence under the Act as aforesaid, then the agreement between the parties shall be terminated by the Board without any intimation or notice.
30. At the time of signing of the agreement between the parties, the contractor shall possess a valid licence under the Provisions of the Contract Labour (Regulation and Abolition) Act 1970 giving details of the work for which the contract labour is allowed to be supplied, details of the period of licence and the number of labours allowed to be supplied by the contractor.
31. If, at the time of signing of the agreement, the contractor is unable to produce a valid licence under the Contract Labour Act as aforesaid, he shall be deemed to be not eligible for the award of the contract and the contract shall be awarded to the next eligible tenderer.
32. It is expressly understood between the parties that the labour supplied by the contractor are the workman of the contractor and the Board has neither any privity of contract nor any employer-employee relation with them.

33. The contractor shall obey all the provisions of various laws including Labour Laws as applicable to them. If the Board suffer any consequences of whatsoever nature, monetary or otherwise, as a result of direct or indirect action or inaction of the contractor in failing to comply with or not properly complying with any law, rules, regulations, notifications, instructions, circulars, G.Os, Board Proceedings, etc. issued by the Government or Board or any other authority as applicable to them as mandated by the law or otherwise, the said laws shall be computed in terms of money and recovered from the contractor.

34. Reduction in payment is exempted to the Contractor for the lesser quantity of water supplied to the beneficiaries on the following reasons which should also be approved by the Engineer/ Employer.

- a. Non availability of power supply for more than 6 hours in respect of 18 hours designed pumping and 12 hours in respect of 12 hours designed pumping or in the case of staggered power supply for the above mentioned designed pumping hours.
- b. Any leak or burst when attended and water supply is restored within 24 hours.
- c. When the availability of water at the drawal of first tapping point of this package is less than the designated.
- d. Shifting and replacement of pipeline due to development activities of other departments.
- e. Any force, Majeure situation such as riots, War, Earthquake, Land slide, Cloud Burst etc., which leads to non – operating condition of the equipment.

IX. Estimated List of Spares

A. Mechanical Spares

SI No	Description	Qty	Unit
	VT Pump spares		
1	16577 lpm x 109.68 m head -		
	Impeller	1	No
	Impeller Shaft (Pump Shaft)	1	No
	Head Shaft (Top shaft)	1	No
	Pump Bearing Bush (bearing in bowl)	1	No
	Intermediate Bearing Bush (transmission bearing)	1	No
	Intermediate Shaft	1	No
	Intermediate Shaft (Bearing) Sleeve	1	No
	Pin & Bush Flexible Coupling	1	No
2	16577 lpm x 128.18 m head -		
	Impeller	1	No
	Impeller Shaft (Pump Shaft)	1	No
	Head Shaft (Top shaft)	1	No
	Pump Bearing Bush (bearing in bowl)	1	No
	Intermediate Bearing Bush (transmission bearing)	1	No
	Intermediate Shaft	1	No
	Intermediate Shaft (Bearing) Sleeve	1	No
	Pin & Bush Flexible Coupling	1	No

3	10123 lpm x 119.29 m head		
	Head Shaft (Top shaft)	1	No
	Neck Ring (casing wear ring)	1	No
	Pump Bearing Bush (bearing in bowl)	1	No
	Intermediate Bearing Bush (transmission bearing)	1	No
	Intermediate Shaft	1	No
	Intermediate Shaft (Bearing) Sleeve	1	No
	Thrust Bearing	1	No
	Pin & Bush Flexible Coupling	1	No
4	3755 lpm x 90m head		
	Head Shaft (Top shaft)	1	No
	Neck Ring (casing wear ring)	1	No
	Pump Bearing Bush (bearing in bowl)	1	No
	Intermediate Bearing Bush (transmission bearing)	1	No
	Intermediate Shaft	1	No
	Intermediate Shaft (Bearing) Sleeve	1	No
	Thrust Bearing	1	No
	Pin & Bush Flexible Coupling	1	No
5	10123 lpm x 119.29 m head		
	Impeller Shaft (Pump Shaft)	1	No
	Pump Bearing Bush (bearing in bowl)	1	No
	Intermediate Shaft	1	No

6	5941 lpm x 90m		
	Head Shaft (Top shaft)	1	No
	Neck Ring (casing wear ring)	1	No
	Pump Bearing Bush (bearing in bowl)	1	No
	Intermediate Bearing Bush (tranmission bearing)	1	No
	Intermediate Shaft	1	No
	Intermediate Shaft (Bearing) Sleeve	1	No
	Thrust Bearing	1	No
	Pin & Bush Flexible Coupling	1	No
7	3660 lpm x 145 m		
	Head Shaft (Top shaft)	1	No
	Neck Ring (casing wear ring)	1	No
	Pump Bearing Bush (bearing in bowl)	1	No
	Intermediate Bearing Bush (tranmission bearing)	1	No
	Intermediate Shaft	1	No
	Intermediate Shaft (Bearing) Sleeve	1	No
	Thrust Bearing	1	No
	Pin & Bush Flexible Coupling	1	No
8	4484 lpm x 52 m		
	Head Shaft (Top shaft)	1	No
	Neck Ring (casing wear ring)	1	No
	Pump Bearing Bush (bearing in bowl)	1	No
	Intermediate Shaft	1	No
	Intermediate Shaft (Bearing) Sleeve	1	No

B. Electrical Spares

Sl no	Description	Qty	Unit
1	11 / 3.3 KV, 1600 KVA TRANSFORMER		
a	HV Bushing	2	Nos
b	LV Bushing	2	Nos
c	Neutral Bushing	2	Nos
d	Silica Gel Breather	2	Nos
e	Bucholz Relay	2	Nos
2	11 / 3.3 KV, 1500 KVA TRANSFORMER		
a	HV Bushing	2	Nos
b	LV Bushing	2	Nos
c	Neutral Bushing	2	Nos
d	Silica Gel Breather	2	Nos
e	Bucholz Relay	2	Nos
3	11 / 3.3 KV, 1600 KVA TRANSFORMER		
a	HV Bushing	2	Nos
b	LV Bushing	2	Nos
c	Neutral Bushing	2	Nos
d	Silica Gel Breather	2	Nos
e	Bucholz Relay	2	Nos
4	11 / 3.3 KV, 1500 KVA TRANSFORMER		
a	HV Bushing	2	Nos
b	LV Bushing	2	Nos
c	Neutral Bushing	2	Nos
d	Silica Gel Breather	2	Nos

e	Bucholz Relay	2	Nos
5	11 / 0.433 KV , 315 KVA TRANSFORMER		
a	Neutral Bushing	2	Nos
b	Silica Gel Breather	2	Nos
c	Bucholz Relay	2	Nos
6	11 / 0.433 KV , 315 KVA TRANSFORMER		
a	HV Bushing	2	Nos
b	LV Bushing	2	Nos
c	Bucholz Relay	2	Nos

C.ICA Spares

Sl no	Description	Qty	Unit
1	Pressure Guage		
a	80mm upto 60 kg/cm ² with S.S case	1	No
b	50mm Glycerine filled upto 400 kg/cm ²	2	Nos
c	100mm Glycerine filled upto 400 kg/cm ²	1	No

Tenderer

Chief Engineer, TWAD Board, Vellore

D. Miscellaneous Spares

Sl no	Description	Qty	Unit
	Supply and Delivery of MJ Collars.		
	100 mm	1	No
	150 mm	1	No
	200 mm	1	No
	250 mm	2	Nos
	300 mm	1	No
	350 mm	1	No
	400 mm	1	No
	450 mm	1	No
	Rubber Gasket		
	200mm dia NP4	3	Nos
	250mm dia NP4	3	Nos
	350mm dia NP4	2	Nos
	400mm dia NP4	3	Nos
	450mm dia NP4	3	Nos

Tenderer

Chief Engineer, TWAD Board, Vellore

X Model Formats

1.LETTER OF NEGOTIATION

In pursuance of negotiation with the Executive Engineer/Superintending Engineer/Chief Engineer of
Division/Circle/Region on

I/We agree to reduce the rates for the items in the BOQ as follows.

Sl.No.	Item No. in the BOQ	Reduced rate/unit
--------	---------------------	-------------------

Signature of Contractor

Tenderer

Chief Engineer, TWAD Board, Vellore

TAMILNADU WATER SUPPLY AND DRAINAGE BOARD

2. Forwarding Slip to The Lump sum Agreement No.

1. Name of Work :
Estimate Amount :
- Sanctioned in Original Estimate No. :
- Revised Estimate No. :
2. Name of Contractor and Address :
3. Original or Supplemental :
4. If Supplemental, Original Agreement No. :
5. Approximate value of work to be done under this Agreement :
6. If this is Supplemental, approximate value of works to be done under Original Agreement :
7. If bids have been called for, is the lowest tender accepted? :
If not reasons to be recorded
8. Has the contractor; signed the divisional copy of TNBP and Its addenda volume brought upto date. :
9. Is data furnished for all items of works noted in the Schedule :
10. Are the rates in Agreement within the estimate rates or schedule of rates whichever is less and the Lump sum provision sufficient or likely to be exceeded. :

Tenderer

Chief Engineer, TWAD Board, Vellore

II. Additional Information

A. Original Agreement

2. Original Agreement amount of tender excess :
and percentage over the estimate rate.
2. If concessional rate of EMD & SD have :
been allowed ref. to sanction thereof

B. Supplemental Agreement

1. Whether the approval of the competent :
authority has been obtained for the rates as
required as per B.P.Ms.No.27/CMW/
dated 5.2.2002
2. If entrusted without tenders whether sanction is :
necessary with reference to total value of work
covered by the supplemental agreement
so far accepted.

TAMILNADU WATER SUPPLY AND DRAINAGE BOARD

3. Form of Agreement (Lump sum)

Articles of Agreement made this-----

Day of -----
between Thiru-----

hereinafter referred to as the contractor which expression shall where the context so admits include his heirs, executors, administrators and legal representatives of the one part and the Tamil Nadu Water Supply and Drainage Board (hereinafter called the Employer) which expression shall where the context so admits include its successors in office and assigns) of the other part. Whereas the contractor delivered to the Employer the bid which was opened on ----

-----whereby the contractor offered and undertook to carryout the works specified under this contract and allied work, i.e. (name of work) -----

In the State of Tamil Nadu in India, and provide the works, materials matters and things described or mentioned in these presents at the prices set forth in the schedule annexed to such bid and the contractor also undertook to do all extra and varied works which might be ordered as part of the contract on the terms provided for in the conditions and specifications hereto annexed and the Employer accepted such tender in pursuance where of the parties hereto have entered into this contract.

And whereas the contractor in accordance with the terms of the said Bid has deposited in the Office of the -----Engineer, TWAD,-----
-----as performance security for the due and faithful performance by the contractor of this contract, the sum of Rs.------(Rupees-----
-----)

And whereas the contractor fully understands that on receipt of communication of acceptance of bid from the accepting authority, there emerges a valid contract between the contractor and the Employer represented by the Officer accepting the agreement and the bid documents, i.e. invitation for bids, letter of application, bill of quantities and other schedules, general conditions of the contract, technical specifications of the bid, negotiation letter, communications of acceptance of bid, shall constitute the contract for this purpose and be the foundation off rights of both the parties, as defined in clause 8.1 of "—Bid Documents "Now

hereby agreed that in consideration of payment of the said sum of Rs. (Rupees) or such other sum as may be arrived at under the clause of the General conditions of the contract relating to

payment by final measurement at unit prices, the contractor shall and well within the time specified in his bid thoroughly and efficiently and in a good workman like manner perform, provide, execute and do all the works, materials matters of things incidental to or necessary for the entire completion of the works specified under this contract and necessary works including all works shown in the drawings hereinafter referred to or described or set forth the said specifications and schedule hereto annexed and in accordance with such further drawings and instructions as the Engineer of the Board or other Engineer duly authorised in that behalf (therein after) and in the annexed documents referred to as the Engineer) shall at any time in accordance with the said schedule (Bill of Quantities) and specifications provide and give together, with any alterations in the works or additions thereto, in the time and manner in such schedule (Bill of Quantities) and specifications stipulated to the entire satisfaction of the Engineer, the Employer for themselves and their successors convenient and agree with the Contractor that during the progress of the works and on the completion of contract to the satisfaction of the Engineer, the Employer shall and will from time to time on receiving the certificates in writing of the Engineer pay to the

Tenderer

Chief Engineer, TWAD Board, Vellore

contractor according to such certificates and the terms of this contract the price or sum mentioned in such certificates as due to the contractor under the terms of this contract subject nevertheless to deductions or additions thereto or the refom which may be lawfully made under terms of his contract. It is hereby mutually agreed and declared as follows.

a) All certificates or notice or orders for items or for extra varied or altered works which are to be the subject of an extra or varied or altered works charge shall be in writing whether so described in the contract or not and unless in writing shall not be valid or binding or be of any effect whatsoever.

b) The term contract include these presents and the invitation for bid, bid documents, bill of quantities and other schedules, general conditions and specifications hereto annexed and the plans drawings herein and hereafter referred to.

c) If the contractor claims that the decisions or the instructions of the Employer are unjustified and that accordingly, he is entitled to extra payments on account thereof he shall forthwith notify this to the Employer to record his decisions and reasons therefor in writing and shall within two weeks state his claims in writing to the Employer thereafter. The Employer shall thereafter within four weeks of the receipt of the claim, reply to the points raised in the claim. Unless resolved by negotiation or discussions immediate

d) thereafter, within further four weeks the question of liability for such payment will be treated as a dispute.

e) In the contract whenever, there is as discretion or exercise of will, by the Employer during the progress of the work, the mode or manner of the exercise of discretion shall not be a matter for dispute.

f) The decision of the Employer shall be final conclusive and binding on all, Parties to the Contract upon all questions relating to the meaning of specifications, designs, drawings and instructions, and as to the quality of workmanship or material used on the work or any matter arising out of or relating to the specifications, designs and drawings and instructions concerning the works or the erection of or failure to execute the same arising during the course of works. The above shall not be the subject matter of dispute and in no case shall the work be stopped consequent on such a dispute arising and the work shall also be carried out by the contractor strictly in accordance with the instructions of the Employer.

g) In case any question, difference or dispute shall arise on ,matters other than clauses (d) and

(e) above and except any of the excluded matters mentioned in bid documents touching the construction of any clause herein contained on the rights, duties and liabilities of the parties hereto or any other way touching or arising out of these presents, the same shall.

Settlement of dispute

Dispute Redressal Committee

In order to ensure a dispute Redressal mechanism, a Committee headed by the Managing Director / Joint Managing Director and consisting of Engineering Director, TWAD Board and Engineering Director, CMWSS Board as Member, will comprise the " Dispute Redressal Committee" for each package in order to resolve any disputes between the Employer / Engineer - incharge concerned and the contractor

i) In the event of non settlement of any dispute by Dispute Redressal Committee arising between parties here to in respect of any of the matter comprised in this contract, the same shall be settled by a competent court having jurisdiction over the place where contract is awarded and agreement is concluded and by no other court.

ii) Provided always the contractor shall not except with the consent in writing of the Engineer in any way, delay in carrying out works in any such matter, question or dispute being referred to court but shall proceed with the works with all the diligence and shall until the decision of the Employer and no award of Competent Civil Court shall relieve the contractor of his obligations to adhere strictly to the instructions of the Engineer with regard to the actual carrying out of the works.

Tenderer

Chief Engineer, TWAD Board, Vellore

g) Time shall be considered as essence of the contract and the contractor hereby agree to commence the work immediately after taking over of site or signing the agreement whichever happens earlier, complete the work within _____ months and to show progress at the stipulated milestone.

In witness where of the contractor _____ and the Employer on behalf of the Board have caused their common seal to be affixed the day and year first above written Signed, sealed and delivered by the said.

In the presence of
Signature of Contractor
Name and Seal.

Signature, Name and
Designation of Witness.
Signed by on behalf of
TWAD Board.

Signed, Name and
Designation of Witness

ENGINEER
TWAD BOARD

Tenderer

Chief Engineer, TWAD Board, Vellore

4. No Correction/ Alteration Certificate

I/We certify that no Correction/alteration is made in the tender document downloaded from the website and shall abide by all the terms, conditions and specifications contained in the Bid Document

Signature of Bidder

Tenderer

Chief Engineer, TWAD Board, Vellore

5. PERFORMANCE BANK GUARANTEE (UNCONDITIONAL)

To

The Executive Engineer, TWAD BOARD,

----- (Name of Employer)

----- (Address of Employer)

WHEREAS----- (name and address of contractor) (hereinafter called" the contractor" has undertaken, in pursuance of contract No.-----

----- Dated ----- to execute-----

----- (name of contract and brief description of works) hereinafter called
— the contract*

AND WHEREAS it has been stipulated by you in the said contract that the contractor shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein, as security for compliance with his obligations in accordance with the contract.

AND WHEREAS the contractor has requested us to give the Bank Guarantee

AND WHEREAS we have agreed to give the contractor such a Bank Guarantee unconditionally and irrevocably to guarantee as primary obligator and not as mere surety, all the payments to the -----

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the contractor, upto a total of ----- (amount of Guarantee) -----
----- (amount in words such sum being payable in the types and proportion of currencies in which the contract price is payable, and we undertake to pay you unconditionally and irrevocably upon your first written demand and without cavil or argument, any sum or Sums within the limit of

----- (amount of Guarantee) as aforesaid without you needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contractor or of the Works to be performed thereunder or of any of the contract documents which may be made between you and the contractor shall in any way release as from the liability under this guarantee and we hereby waive notice of any such change, addition or modification.

The Bank Guarantee is drawn at -----branch of-----bank in ---
-----Town in Tamil Nadu only.

This guarantee shall be valid until 28 days from the date of expiry of the defects liability period.

SIGNATURE AND SEAL OF THE GUARANTOR

Name of Bank -----

Address -----

Date -----

Tenderer

Chief Engineer, TWAD Board, Vellore

6. BID SECURITY (BANK GUARANTEE)

WHEREAS, _____ [*name of Bidder*] (hereinafter called "the Bidder") has submitted his Bid dated _____ [*date*] for the construction of _____ [*name of Contract*] (hereinafter called "the Bid").

KNOW ALL PEOPLE by these presents that We _____ [*name of bank*] of _____ having our registered office at _____ (hereinafter called "the Bank") are bound unto _____ [*name of Employer*] (hereinafter called "the Employer") in the sum of _____¹ for which payment well and truly to be made to the said Employer the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this _____ day of _____ **2020.**

THE CONDITIONS of this obligation are:

- 1) If after Bid opening the Bidder withdraws his bid during the period of Bid validity specified in the Form of Bid;
or
- 2) If the Bidder having been notified of the acceptance of his bid by the Employer during the period of Bid validity:
 - (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders, if required; or
 - (b) fails or refuses to furnish the Performance Security, in accordance with the Instruction to Bidders; or
 - (c) does not accept the correction of the Bid Price pursuant to Clause 28.2;

we undertake to pay to the Employer up to the above amount upon receipt of his first written demand, without the Employer having to substantiate his demand, provided that in his demand the Employer will note that the amount claimed by him is due to him owing to the occurrence of one or any of the three conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date _____² days after the deadline for submission of Bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the Employer, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this guarantee should reach the Bank not later than the above date.

DATE _____ SIGNATURE OF THE BANK

WITNESS _____ SEAL _____

[signature, name, and address]

- 1 The Bidder should insert the amount of the guarantee in words and figures denominated in Indian Rupees. This figure should be the same as shown in Clause 16.1 of the Instructions to Bidders.
- 2 45 days after the end of the validity period of the Bid.

XI. BILL OF QUANTITIES – (Volume – 8)

(To be furnished separately as Price Bid)

General

The Bill of Quantities shall contain items for the operation and maintenance of the Works to be carried out by the Contractor

The Bill of Quantities will be used to calculate the Contract Price. The contractor shall be paid for the quantum of work done at the rate quoted for each item in the Bill of Quantities.

Where there is a discrepancy between the rates in words and figures, the lesser of the two will only be taken in to consideration.

Where there is a discrepancy between the unit rate and line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern.

Where there is an arithmetical discrepancy in the page total as well as grand total, the corrected total by the Employer will govern

The rates quoted in the BOQ shall be for carrying out the work in conformity to the BIS, TNBP and Technical Specifications and other Terms and Conditions set out in the Bid Document

All pages in the BOQ should be signed without omission. All corrections should be properly attested by the Bidder.

Change in the Quantities - If the final quantity of the work done differs from the quantity in the Bill of Quantities for the particular item/items, the rates as in the agreement for the relevant items shall be paid.

GST is Exempted since the value of materials involved is less than 25% , as per Government of India Notification No 2 / 2018 – Central Tax (Rate)/ New Delhi, 25th January 2018 and as amended from time to time.

Name of work:

Operation and Maintenance of Hogenakkal Water supply and Fluorosis Mitigation Project in Dharmapuri and Krishnagiri Districts for the period of 48 months (From 01.04.2020 to 31.03.2024) – 3rd call - Package IV

Item No.	Description of work	Probable Quantity Figures	TNBP No other specifications	Unit in Figures and words	Rates in Rs.		Amount in Rs.
					Figures	Words	
1	2	3	4	5	6	7	8
Vide Separate Sheets attached							

Tenderer

Chief Engineer, TWAD Board, Vellore

Tenderer

Chief Engineer, TWAD Board, Vellore