

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

HOGENAKKAL WATER SUPPLY AND FLUOROSIS MITIGATION PROJECT
PACKAGE – II



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 II

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-II



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 II

Description of work : Operation and Maintenance of Transmission Main from Master Balancing Reservoir (MBR) at Madam to Antheripatty MBR, Feeder main, Internal Transmission main, Internal Net Works, Booster Pumping Stations, Re-Chlorination works, Union MBRs, Panchayat MBRs and Allied works including Maintenance of Project Office Campus (near Collectors' Camp Office) at A. Jettihalli (P.O.) and to provide water supply to Dharmapuri Municipality, Pennagaram Town Panchayat and 1068 Rural Habitations in Dharmapuri Union (Part), Nallampalli Union, Pennagaram Union(Part) in Dharmapuri District and Uthangarai Town Panchayat, 808 Rural Habitations in Mathur Union and Uthangarai Union in Krishnagiri District under Package-II of Hogenakkal Water Supply and Fluorosis Mitigation 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.17.40 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 23.15 Crore		
2	Minimum Cash Flow: Minimum Cash flow required in Rs... in Crore	Rs 1.45 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.23.15 Crores in the last five financial years (2014-15 to 2018-19) either a) in single agreement or b) in two agreements	Rs.23.15 Crore Rs.34.73 Crore		
4	Bid capacity The available Bid capacity	Rs.23.15 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	49.00 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	192.00 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) 19.00 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.	178 KW		
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)	
7.	Qualification / Experience of key personnel proposed for technical and administrative functions under this Contract (7.1.8) (Annexure-VII)	
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)
- 4) Commitment of works on hand (Annexure-IV)
- 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	On 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 II

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

Tenderer

Chief Engineer, TWAD Board, Vellore

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. 17.40 Lakhs (Rupees Seventeen lakhs and fourty 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, Dharmapuri. 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 II

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 Pappirdipatty 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 Avathanapatti 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 II."

Description of work : Operation and Maintenance of Transmission Main from Master Balancing Reservoir (MBR) at Madam to Antheripatty MBR, Feeder main, Internal Transmission main, Internal Net Works, Booster Pumping Stations, Re-Chlorination works, Union MBRs, Panchayat MBRs and Allied works including Maintenance of Project Office Campus (near Collectors' Camp Office) at A. Jettihalli (P.O.) and to provide water supply to Dharmapuri Municipality, Pennagaram Town Panchayat and 1068 Rural Habitations in Dharmapuri Union (Part), Nallampalli Union, Pennagaram Union(Part) in Dharmapuri District and Uthangarai Town Panchayat, 808 Rural Habitations in Mathur Union and Uthangarai Union in Krishnagiri District under Package-II of Hogenakkal Water Supply and Fluorosis Mitigation 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-II. As detailed below

The quantity of (Refer BOQ) Water has to be supplied to Dharmapuri Municipality, Pennagaram Town Panchayat and 1068 Rural Habitations in Dharmapuri Union (Part), Nallampalli Union, Pennagaram Union(Part) in Dharmapuri District and Uthangarai Town Panchayat, 808 Rural Habitations in Mathur Union and Uthangarai Union in Krishnagiri District

SI No	Beneficiaries	No of Pts	No of Habs	Population	Requirement
				Inter (2021)	Inter (2021) MLD
1	Dharmapuri Municipality			97000	7.44
2	Pennagaram TP			18468	0.89
3	Uthangarai TP			18587	0.80
4	Pennagaram Union (Part)	23	348	168570	5.64
5	Nallampalli Union	30	458	209277	7.21
6	Dharmapuri Union (Part)	19	262	112460	4.15
7	Mathur Union	24	374	113344	3.90
8	Uthangarai Union	34	434	152288	5.24
9	Morappur Union (Part)			541	0.02
		130	1876	890535	35.29

1.1.2. Pipe Details (in KM)					
Sl. No	Details of Pipe	Transmission Main	Feeder Main	Internal Transmission Main	Internal Net Work
1	MS Pipe				
	1000 mm	34.631			
	600 mm	21.280			
	Total	55.911			
2	DI Pipe				
	500 mm	9.091	11.502		
	450 mm	7.562			
	400 mm		0.665		
	350 mm	9.822	1.104	13.318	
	300 mm				
	250 mm		3.096	51.772	
	200 mm		9.746	56.525	
	150mm		17.971	31.267	2.961
	100 mm		10.754	169.419	22.585
	Total	26.475	54.838	322.301	25.546
	Grand Total(MS & DI)	485.071km			
	HDPE Pipe				
	315 mm			16.385	
	280 mm			12.921	
	250 mm			18.670	
	225 mm			10.203	
	200 mm			20.266	3.072
	160 mm			26.510	
	140 mm			41.626	32.295
	110 mm			58.846	73.964
	90 mm			18.053	113.478
	75 mm			12.682	152.918
	63 mm			13.914	1287.500
	Total			250.076	1663.227
	Grand Total(HDPE)	1913.303 km			

1.1.3. Civil Structures.

Sl. No	Capacity	Union MBR	Pts. MPR	Union Sump	Pts. Sump	BPT	OHT - 16m	OHT - 6m
	14.00 Lakh Litres			1				
	6.00 Lakh Litres	1		1			1	
	5.00 Lakh Litres			1				
	4.00 Lakh Litres						1	
	3.00 Lakh Litres	1		1	2			
	2.50 Lakh Litres				3			
	2.00 Lakh Litres	1	5		4			
	1.50 Lakh Litres		1		5			
	1.00 Lakh Litres	2	8		13			
	0.60 Lakh Litres		12		21			
	0.30 Lakh Litres		71		31	1		2
	0.15 Lakh Litres				12			
	0.10 Lakh Litres		24		28			114
	Total	5	121	4	119	1	2	116
	Grand Total	182.20 LL						

1.1.4. SCADA Details

SI No	Location	BPS	UR	TP	Telemetry	No of Panels
1	Madam	1	1	1	1	3
2	Konangihalli	0	1	1	1	2
3	Indur	0	0	1	1	1
4	Athagapadi	0	1	1	1	2
5	Sogathur(Nallampalli)	0	0	1	1	1
6	Lakkiampatti-II	0	0	1	1	1
7	Dharmapuri-Four Road	0	0	2	1	2
8	Mathikonpalayam	0	0	1	1	1
9	Kuppur	1	1	1	1	3
SI No	Location	BPS	UR	TP	Telemetry	No of Panels
10	Olaipatti	0	1	1	1	2
11	Uthangarai	0	1	1	1	2
12	Nagampatti	0	1	1	1	2
13	Erupalli (Echanahalli)	1	0	0	1	1
14	Sowlur	3	1	0	1	4
15	Dharmapuri-Municipality	0	1	0	1	1
16	Mukkalnaickanpatti	1	1	0	1	2
17	Kallavi	1	0	0	1	1
18	Weaver's Colony	0	1	0	1	1
	Total	8	11	13	18	32

1.1.5. Pumpset Details

Sl. No	Location (Name of place)	Located Sump Details		HP	Total	Working	Stand By
		Capacity	TM/ ITM/ INW				
I	Dharmapuri union						
1	Kuppur	6.00LL	FM	25	2	1	1
2	Mukkalnaickenpatti	3.00LL	FM	20	2	1	1
3	Kuppur	6.00LL	FM	7.5	2	1	1
4	INW - Athagapadi	1.00LL	INW	2	2	1	1
5	INW - Athagapadi	1.00LL	INW	3	2	1	1
6	INW - Erokodi Railway line	0.60LL	INW	3	2	1	1
7	INW - Muthupatti	0.15LL	INW	2	2	1	1
8	ITM - Kadagathur	1.00LL	ITM	3	2	1	1
9	INW - Pachanampatty	0.30LL	INW	1	2	1	1
10	ITM -K.Nadihalli	1.00LL	ITM	3	2	1	1
11	INW - Mavuthaliyankottai	0.30LL	INW	1	2	1	1
12	INW - Rajathoppu	0.30LL	INW	1	2	1	1
13	INW - Natham-H	0.30LL	INW	2	2	1	1
14	INW - Sowkuthoppu	0.30LL	INW	3	2	1	1
15	INW - Ulavankottai	0.10LL	INW	2	2	1	1
16	INW - Kollakottai	0.10LL	INW	2	2	1	1
17	INW - Reddipattiyankottai	0.10LL	INW	1	2	1	1
18	INW - Samigoundanur	0.10LL	INW	1	2	1	1
19	INW - Naickenkottai	0.30LL	INW	2	2	1	1
20	INW - Moolakadu	0.15LL	INW	1	2	1	1
21	INW - Pudukudiyankottai A.Gollahalli	0.15LL	INW	2	2	1	1
22	INW - Kaverigoundenkottai A.Gollahalli	0.15LL	INW	1	2	1	1
23	INW - Ettimarathupatti	0.60LL	INW	3	2	1	1
24	INW - Chinneri	0.60LL	INW	2	2	1	1
	Mathur union						
25	ITM - Kannandahalli	2.50LL	ITM	10	2	1	1
26	INW - G.D Kuppur	0.15LL	INW	1	2	1	1
27	INW - Reddiyarvattam	0.10LL	INW	1	2	1	1
28	INW - Sivampatti	0.15LL	INW	1	2	1	1
29	INW - Soolankottai	0.10LL	INW	1	2	1	1
30	INW - Ramakrishnampathi	0.30LL	INW	1	2	1	1
31	INW - Pananthoppu Gerigapalli	0.15LL	INW	1	2	1	1
32	INW - Soolakarai	0.30LL	INW	1	2	1	1
33	INW - Ollaipatti X Road	0.10LL	INW	1	2	1	1
34	INW - Pulayanur X Road	0.10LL	INW	1	2	1	1
35	INW - Salakokkarapatti	0.15LL	INW	1	2	1	1
36	INW - Thanjanvattam	0.30LL	INW	1	2	1	1
37	INW - Sanipatti Goundanur	0.30LL	INW	1	2	1	1

38	INW - Samalpatti	0.30LL	INW	2	2	1	1
39	INW - Kunathur	0.60LL	INW	3	2	1	1
40	INW - Puliyanthoppu Kalarpathi	0.10LL	INW	3	2	1	1
41	INW - Mathur	1.00LL	INW	3	2	1	1
42	INW - Kodamandapatti	0.60LL	INW	3	2	1	1
43	INW - Kannukanur	0.60LL	INW	3	2	1	1
	Uthangarai union						
44	Kallavi Booster Pumping station	3.00LL	ITM	20	2	1	1
45	INW - Reddipatti (Thippampatti)	0.10LL	INW	1	2	1	1
46	INW - Mittapalli (Ramnaickenpatti)	0.10LL	INW	1	2	1	1
47	INW - Mettuthangel (AD.Colony)	0.15LL	INW	2	2	1	1
48	INW - Pavakkal (Gandhinagar)	0.10LL	INW	1	2	1	1
49	INW - Mittapalli (Parasuramkottai)	0.10LL	INW	1	2	1	1
50	INW - Mittapalli (Kallurankottai)	0.10LL	INW	1	2	1	1
51	INW -Upparapatti (Santhakottur)	0.30LL	INW	1	2	1	1
52	INW - Govinapuram (Gadaganur)	0.10LL	INW	1	2	1	1
53	INW - Singarapettai (Puliyapur)	0.10LL	INW	1	2	1	1
54	INW - Gangabrampatti	0.10LL	INW	1	2	1	1
55	INW - TP (Narayan nagar)	2.5LL	INW	10	2	1	1
56	INW - Nochipatti (Vellalapatti)	0.30LL	INW	2	2	1	1
	Pennagaram union						
57	Madam Booster Pumping (P1)	5.00LL	ITM	20	2	1	1
58	Madam Booster Pumping (P2)	5.00LL	ITM	25	2	1	1
59	Anjehalli BPT	2.00LL	ITM	10	2	1	1
60	Senganur (1.50LL)	1.50LL	ITM	5	2	1	1
61	BPS to Bathrahalli	0.30LL	INW	4	2	1	1
62	Batharahalli BPS to Aralkundhi	0.30LL	INW	4	2	1	1
63	Manjarahalli @ Shellamudi	2.00LL	ITM	10	2	1	1
64	Palikadu (Arakasanahalli Panchayath)	0.10LL	INW	5	2	1	1
65	Kodupatty (Vattuvanahalli Panchayath)	0.30LL	INW	3	2	1	1
66	Ettipallam (Kookuttamarathuhalli Panchayath)	0.30LL	INW	3	2	1	1
67	Bodampatty (Gendayanahalli)	0.15LL	INW	5	2	1	1
68	Nagamarai-I (Kattur)	0.10LL	INW	1	2	1	1
69	Sunjalnatham	1.50LL	INW	7.5	2	1	1
70	Koothapadi -Kullathirampatty	0.30LL	INW	1	2	1	1
71	Manjanaickanahalli (Godalpatti)	0.15LL	INW	1	2	1	1
72	Chinnampalli (RR Halli)	0.15LL	INW	1	2	1	1
73	Gendayanahalli (Kavakadu)	0.30LL	INW	1	2	1	1
74	Vattuvanahalli (Narayanankottai)	0.10LL	INW	1	2	1	1
75	Paruvathanahalli -Near MBR	0.60LL	INW	3	2	1	1
76	Nagamarai MBR	0.60LL	INW	3	2	1	1
77	Biliyanur -Bikkampatty	0.30LL	INW	2	2	1	1
78	Sunjalnatham (moolabellur)	0.15LL	INW	3	2	1	1

79	Koothapadi-Pocharampatty	0.30LL	INW	3	2	1	1
80	Ajjanahalli (Chinnapallanur)	0.30LL	INW	3	2	1	1
81	Anjehalli-Rangapuram	0.60LL	INW	3	2	1	1
82	Arakasanahalli - Mettukkal Kombai	0.10LL	INW	3	2	1	1
83	Arakasanahalli (Jarugu road)	1.00LL	INW	2	2	1	1
84	Vattuvanahalli -Reddiyarkottai	0.30LL	INW	7.5	2	1	1
85	Senganur-Mallapuram	0.30LL	INW	1	2	1	1
86	Paravathanahalli -Barriel yard	0.60LL	INW	3	2	1	1
87	Biliyanur - Nagadasampatti	1.00LL	INW	3	2	1	1
88	Perumbalai – Samathal	0.60LL	INW	6	2	1	1
89	Manjanaickanahalli- Thinnur	0.60LL	INW	3	2	1	1
90	Chinnampalli - Tholur kombai	0.10LL	INW	2	2	1	1
91	Chinnampalli - kariyakatuvalasu	0.10LL	INW	2	2	1	1
	Nallampalli union						
92	Earupalli Booster Pumping station	2.50LL	ITM	20	2	1	1
93	Sowlur Booster Pumping (P1)	14.00LL	ITM	15	2	1	1
94	Sowlur Booster Pumping (P2)	14.00LL	ITM	40	2	1	1
95	Sowlur Booster Pumping (P3)	14.00LL	ITM	75	2	1	1
96	INW- Thinnahalli	2.00LL	ITM	2	2	1	1
97	INW- Thinnahalli	2.00LL	ITM	4	2	1	1
98	INW- Laligam	1.00LL	INW	3	2	1	1
99	INW- Laligam	1.00LL	INW	3	2	1	1
100	INW- Nallampalli	1.50LL	INW	3	2	1	1
101	INW- Nallampalli	1.50LL	INW	3	2	1	1
102	INW- Narthampatty	0.60LL	INW	3	2	1	1
103	INW- Narthampatty	1.00LL	INW	1	2	1	1
104	INW- Narthampatty	1.00LL	INW	4	2	1	1
105	INW- Mittareddihalli	0.60LL	INW	3	2	1	1
106	INW- Mittareddihalli	0.60LL	INW	4	2	1	1
107	INW- Madhenmangalam	0.30LL	INW	1	2	1	1
108	INW- Boothanahalli	0.30LL	INW	1	2	1	1
109	INW - Ramarkoodal	0.30LL	INW	2	2	1	1
110	INW- Dhalavahalli (Nehru nagar)	0.30LL	INW	2	2	1	1
111	INW- Bedrahalli (ArukaniKottai)	0.10LL	INW	1	2	1	1
112	INW- Bedrahalli (Kallikottai)	0.30LL	INW	1	2	1	1
113	INW- Konangihalli (Murugananthapuram)	0.60LL	INW	2	2	1	1
114	ITM- Palavadi	1.00LL	ITM	2	2	1	1
115	ITM- Palavadi	1.00LL	ITM	2	2	1	1
116	INW- Konangihalli (Thamari Eari)	0.60LL	INW	3	2	1	1
117	INW- Indur	0.60LL	INW	3	2	1	1
118	ITM- Somanahalli	3.00LL	ITM	10	2	1	1
119	ITM- Somanahalli	3.00LL	INW	3	2	1	1
120	ITM- Somanahalli	3.00LL	INW	3	2	1	1
121	ITM- Anna Nagar	1.50LL	INW	5	2	1	1
122	INW- Avvai Colony	0.10LL	INW	1	2	1	1
123	INW- Maniyathahalli Podarankottai	0.60LL	INW	1	2	1	1
124	INW-Maniyathahalli Jarugu	0.60LL	INW	3	2	1	1

125	INW- Balajangamanahalli	0.30LL	INW	1	2	1	1
126	INW- Balajangamanahalli	0.30LL	INW	3	2	1	1
127	INW- Athiyamankottai	2.00LL	INW	1	2	1	1
128	INW- Athiyamankottai	2.00LL	INW	7.5	2	1	1
129	INW-Palayampudur (Samathuvapuram)	0.10LL	INW	1	2	1	1
130	INW- Palayampudur (Kombai)	0.60LL	INW	1	2	1	1
131	INW- Palayampudur (Kamarajnagar)	0.60LL	INW	1	2	1	1
132	INW- Thadangam (kakkanjipuram)	0.60LL	INW	3	2	1	1
133	ITM- Maniyathanahalli	1.00LL	ITM	5	2	1	1
134	INW- Elagiri	0.60LL	INW	4	2	1	1
135	INW- Errabynahalli-Nekkundhi	1.00LL	INW	4	2	1	1
Total				1192HP		890 KW	

1.1.6. Valve Details

Sl. No	Particulars	Unit	Total No.of Valves		
			Sluice Valve	Scour Valve	Air Valve
1	Transmission Main (600 & 1000MS)	Nos	15	13	71
	Transmission Main (500,450 & 350DI)	Nos	4	6	25
2	Feeder Main	Nos	13	13	53
3	ITM - Pennagaram union	Nos	53	51	222
4	INW - Pennagaram union	Nos	322	80	412
5	ITM - Nallampalli union	Nos	37	32	90
6	INW - Nallampalli union	Nos	535	254	641
7	ITM - Dharmapuri union	Nos	22	20	73
8	INW - Dharmapuri union	Nos	293	150	305
9	ITM - Mathur union	Nos	32	42	102
10	INW - Mathur union	Nos	412	141	318
11	ITM - Uthangarai union	Nos	58	60	181
12	INW - Uthangarai union	Nos	338	146	478
Total			2134 Nos	1008 Nos	2971 Nos
Grand Total			6113 Nos		

DESCRIPTION OF THE WORKS

Scope

Raw water being taken from river Cauvery, at the site located at 45km west of Dharmapuri is treated by the Water Treatment Works and the treated water is then delivered to the Master Balancing Reservoir (MBR) at MADAM. This portion of work will be maintained by the O&M contractor of Package I of the Hogenakkal Water Supply and Fluorosis Mitigation Project.

The Master Balancing Reservoir at MADAM is located at the commanding level to most of the downstream rural and urban areas. The O & M contractor of Package II of the Project will provide the treated water through the gravity feed trunk mains from MADAM to Antheripatty MBR. The areas of coverage for the supply of treated water under Package II includes 1876 rural habitations in Dharmapuri Union (part), Pennagaram Union (Part), Nallampalli Union, Mathur Union, Uthangarai Union and 2 Town Panchayats namely Pennagaram, Uthangarai and Dharmapuri Municipality.

The distribution of treated water is supplied to most of the sites by gravity arrangements. At sites where gravity feed is not feasible as a result of their altitude, booster pumping stations are provided for the necessary hydraulic lift. The Contractor has to provide treated water through the trunk mains from Master Balancing Reservoir MADAM to reach Antheripatty (Uthangarai) Union Master Balancing reservoir. The Contractor has to provide water to the Union / Panchayat reservoirs and overhead tanks at various locations aligned along Dharmapuri Union (part), Pennagaram Union (Part), Nallampalli Union, Mathur Union, Uthangarai Union and 2 Town Panchayats namely Pennagaram, Uthangarai and Dharmapuri Municipality.

The size of the trunk mains and branch mains, vary from 1000mm to 63mm diameter and the material of pipe used is mild steel, ductile iron and high density polyethylene (HDPE). Treated water from Master Balancing Reservoir MADAM shall be delivered by gravity and at some sites via booster pumping stations to the downstream union reservoirs, the Panchayat reservoirs and from these reservoirs to the overhead tanks in the habitation.

The treated water trunk mains and the branch have been laid across rivers, roads, railway and nalla. For the purpose of isolation, control and surge protection, valves for isolation, air valves for surge protection and valves for flow control have been provided as located in the Drawings.

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 major booster pumping stations shall be able to be displayed in the Human Machine Interface pages at the Central Control Rooms (CCRs) located at the filter bed building of the Water Treatment Plant. Through the SCADA System, operators of the Employer shall be able to modulate the position of the flow control valves and open/close isolating valves at the CCR. The SCADA system is operated by the Contractor of Package I of the Hogenakkal Water Supply and Fluorosis Mitigation Project. The O&M Contractor of Package II shall work closely with the contractor of Package I to enable all the control/status signals of all the devices that are installed at the sites of Package II to function properly.

The whole of the Works under Package II will be under the possession of the Contractor. The Contractor shall be responsible for all insurances, where the cost of providing that shall be entered into in the Schedule 1- Schedule of Prices of agreement. After the Contractor has satisfactorily completed the 48 months operation and maintenance works, the Employer will take-over the whole Works.

The O&M Works contain a 3 months Defects Liability Period. During the Defects Liability Period, the Contractor has to rectify all defects and complete all minor outstanding works that are agreed by the Contractor and the Engineer after the test on completion of O&M works at the end of fifth year. At the end of fifth year, prior to hand over the whole Works to the Employer, 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 Clause A15 of this General Specification.

Works to be maintained by the Contractor

Under this Contract, the Contractor shall maintain all the works in accordance with the Drawings, Specification and Bill of Quantities, which includes but not limited to the followings:

- (a) The works includes the supply of the treated water through the trunk main pipelines originating from MADAM MBR through 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) Maintain all supports, piers and appurtenances from above ground, river, nalla and culvert crossings. Maintain pipe bridges and the pipe line crossing rivers, nallas, culvert and the like;
- (c) Operate and maintain the valves in the valve chambers at the tapping-point branches (as shown in Table 1) 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) Maintain flow meter chambers at the tapping point branches (as shown in Table 1) of the trunk main pipe lines and at large booster pumping stations. The flow meter measuring tube, flow meters, flange adapters and other associated pipes shall be maintained by the O&M contractor of Package I.
- (e) Maintain the buildings housing the on-line rechlorination equipment and any associated works including roads, drainage, landscaping, compound wall/ fencing at each union reservoir and rechlorination equipment, electrical, mechanical, instrumentation and building services equipment in these buildings,
- (f) Maintain the buildings and associated works including roads, drainage, landscaping, compound fencing walls, building services etc., at the sites of booster pumping stations and booster pump sets, electrical, mechanical, instrumentation and building services equipment in these buildings.
- (g) Maintain union reservoirs, panchayat reservoirs, overhead tanks connections and any associated works including roads, drainage, landscaping, compound fencing walls and building services work at each site;
- (h) Maintain all cable ducts for SCADA instruments of Package I. These cable ducts include, the cable ducts for the cables connecting the ultrasonic level sensors at union reservoirs/large booster pumping stations and the electromagnetic flow meter, primary head pipes at tapping point from trunk mains/large booster pumping stations to their transmitters. The cables connecting the ultrasonic level transmitters, the electromagnetic flow meter transmitters, the level electrodes controllers, the pressure transmitters (equipment of Package I O&M contractor to the Local Control Panels under the control and maintenance of the contractor of Package I) shall be maintained by the O&M contractor of Package II.

Package II contractor shall maintain the cable ducts, cable trays and cables. Apart from those that are being used and maintained by the Contractor of Package II, these cable ducts, cable trays and cables to wire back the signals of the equipment provided to the Local Control Panels (to be maintained by the contractor of Package I) shall also be maintained by the Contractor of Package II. In these locations, the Package II O&M Contractor has to maintain all the connection of the above cables to the appropriate cable. Terminals at the Local Control Panels, according to information being provided by the O&M contractor of Package I.

Table 1.

Take off / Tapping locations of beneficiaries	District	Beneficiary Mpty/ Union/Union	No. of Panchayats	Location MBR/Gravity feeder I,II / Direct	Transmission main / gravity main LS in m
Tapping Point At Madam	Dharmapuri	Pennagaram Town Panchayat and Pennagaram Union	22	Madam Sump	0
Tapping Point at Konangihalli	Dharmapuri	Nallampalli	6	Konangihalli UMBR	12655
Tapping Point at Billiyanur	Dharmapuri	Pennagaram Union	1	Billiyanur MBR	14370
Tapping Point at Indur	Dharmapuri	Nallampalli	5	Indur	20929
Tapping Point at Athagapadi	Dharmapuri	Dharmapuri	7	Athagapadi UMBR	25744
Tapping Point at Sogathur	Dharmapuri	Nallampalli	19	Thadangam MBR, Sowlu r Sump .	29200
Tapping Point at Illakiampatti - II	Dharmapuri	Dharmapuri	0	Elakkiampatti II MBR(Part)	31922
Tapping Point @ Four Roads for Mukkalanaickenpatti	Dharmapuri	Dharmapuri	6	Dharmapuri 4 Roads	32970
Tapping Point @ Four Roads for Dharmapuri Municipality	Dharmapuri	Dharmapuri Municipality	1	Dharmapuri 4 Roads	32971
Tapping Point at Madhikonpalayam	Dharmapuri	Dharmapuri	-	Package III Madhikonpalayam	34682
Tapping Point at Kuppur	Dharmapuri	Dharmapuri	6	Kuppur Sump	39548
Tapping Point at Olaiipatti	Krishnagiri	Mathur	8	Olaiipatti UMBR	65054
Tapping Point at Nagampatti	Krishnagiri	Mathur	16	Nagampatti UMBR	72660
Tapping Point at Antheripatty	Krishnagiri	Uthangarai and Uthangarai T.P	34	Antheripatty UMBR	72663

Table 2. - Re-Chlorination Stations

Location of Re-Chlorination Station	Quantity of Reservoirs	Union Reservoir(s) Or Panchayat Reservoir(S)	Type and size of branch pipeline (mm)	Chlorination Building Type
Pennagaram UMBR	1	Union Sump	600 DI K7	Type A
Konagihalli	1	Union reservoir	150 DI K7	Type B
Athagapadi	1	Union reservoir	200 DI K7	Type B
Sowlur	1	Union Sump	500 DI K7	Type C
Mukkalanaiickenpatti	1	ITM sump	150 DI K7	Type B
Ambethkar Colony	1	Municipality OHT	200 DI K7	Type A
Weavers Colony	1	Municipality OHT	200 DI K7	Type A
Kuppur	1	ITM sump	150 DI K9	Type B
Nagampatty	1	Union reservoir	200 DI K9	Type A
Antheripatti	1	Union reservoir	350 DI K9	Type A
Olaipatti-X Road	1	Union reservoir	150 DI K9	Type B

Table 3. Pipe Details (in KM)

Sl. No	Details of Pipe	Transmission Main	Feeder Main	Internal Transmission Main	Internal Net Work
1	MS Pipe				
	1000 mm	34.631			
	600 mm	21.280			
	Total	55.911			
2	DI Pipe				
	500 mm	9.091	11.502		
	450 mm	7.562			
	400 mm		0.665		
	350 mm	9.822	1.104	13.318	
	300 mm				
	250 mm		3.096	51.772	
	200 mm		9.746	56.525	
	150mm		17.971	31.267	2.961
	100 mm		10.754	169.419	22.585
	Total	26.475	54.838	322.301	25.546
	Grand Total(MS & DI)	485.071km			

	HDPE Pipe				
	315 mm			16.385	
	280 mm			12.921	
	250 mm			18.670	
	225 mm			10.203	
	200 mm			20.266	3.072
	160 mm			26.510	
	140 mm			41.626	32.295
	110 mm			58.846	73.964
	90 mm			18.053	113.478
	75 mm			12.682	152.918
	63 mm			13.914	1287.500
	Total			250.076	1663.227
	Grand Total(HDPE)	1913.303 km			

Table 4. Civil Structures.

SI. No	Capacity	Union MBR	Pts. MPR	Union Sump	Pts. Sump	BPT	OHT - 16m	OHT - 6m
	14.00 Lakh Litres			1				
	6.00 Lakh Litres	1		1			1	
	5.00 Lakh Litres			1				
	4.00 Lakh Litres						1	
	3.00 Lakh Litres	1		1	2			
	2.50 Lakh Litres				3			
	2.00 Lakh Litres	1	5		4			
	1.50 Lakh Litres		1		5			
	1.00 Lakh Litres	2	8		13			
	0.60 Lakh Litres		12		21			
	0.30 Lakh Litres		71		31	1		2
	0.15 Lakh Litres				12			
	0.10 Lakh Litres		24		28			114
	Total	5	121	4	119	1	2	116
	Grand Total	182.20 LL						

Table 5. SCADA Details

SI No	Location	BPS	UR	TP	Telemetry	No of Panels
1	Madam	1	1	1	1	3
2	Konangihalli	0	1	1	1	2
3	Indur	0	0	1	1	1
4	Athagapadi	0	1	1	1	2
5	Sogathur(Nallampalli)	0	0	1	1	1

6	Lakkimpatti-II	0	0	1	1	1
7	Dharmapuri-Four Road	0	0	2	1	2
8	Mathikonpalayam	0	0	1	1	1
SI No	Location	BPS	UR	TP	Telemetry	No of Panels
9	Kuppur	1	1	1	1	3
10	Olaipatti	0	1	1	1	2
11	Uthangarai	0	1	1	1	2
12	Nagampatti	0	1	1	1	2
13	Erupalli (Echanahalli)	1	0	0	1	1
14	Sowlur	3	1	0	1	4
15	Dharmapuri-Municipality	0	1	0	1	1
16	Mukkalnaickenpatti	1	1	0	1	2
17	Kallavi	1	0	0	1	1
18	Weaver's Colony	0	1	0	1	1
	Total	8	11	13	18	32

Table 6. Pumpset Details

SI. No	Location (Name of place)	Located Sump Details		HP	Total	Working	Stand By
		Capacity	TM/ ITM/ INW				
I	Dharmapuri union						
1	Kuppur	6.00LL	FM	25	2	1	1
2	Mukkalnaickenpatti	3.00LL	FM	20	2	1	1
3	Kuppur	6.00LL	FM	7.5	2	1	1
4	INW - Athagapadi	1.00LL	INW	2	2	1	1
5	INW - Athagapadi	1.00LL	INW	3	2	1	1
6	INW - Erokodi Railway line	0.60LL	INW	3	2	1	1
7	INW - Muthupatti	0.15LL	INW	2	2	1	1
8	ITM - Kadagathur	1.00LL	ITM	3	2	1	1
9	INW - Pachanampatty	0.30LL	INW	1	2	1	1
10	ITM -K.Nadihalli	1.00LL	ITM	3	2	1	1
11	INW - Mavuthaliyankottai	0.30LL	INW	1	2	1	1
12	INW - Rajathoppu	0.30LL	INW	1	2	1	1
13	INW - Natham-H	0.30LL	INW	2	2	1	1
14	INW - Sowkuthoppu	0.30LL	INW	3	2	1	1
15	INW - Ulavankottai	0.10LL	INW	2	2	1	1
16	INW - Kollakottai	0.10LL	INW	2	2	1	1
17	INW - Reddipattiyankottai	0.10LL	INW	1	2	1	1
18	INW - Samigoundanur	0.10LL	INW	1	2	1	1
19	INW - Naickenkottai	0.30LL	INW	2	2	1	1
20	INW - Moolakadu	0.15LL	INW	1	2	1	1
21	INW - Pudukudiyankottai A.Gollahalli	0.15LL	INW	2	2	1	1

22	INW - Kaverigoundenkottai A.Gollahalli	0.15LL	INW	1	2	1	1
23	INW - Ettimarathupatti	0.60LL	INW	3	2	1	1
24	INW - Chinneri	0.60LL	INW	2	2	1	1
	Mathur union						
25	ITM - Kannandahalli	2.50LL	ITM	10	2	1	1
26	INW - G.D Kuppam	0.15LL	INW	1	2	1	1
27	INW - Reddiyarvattam	0.10LL	INW	1	2	1	1
28	INW - Sivampatti	0.15LL	INW	1	2	1	1
29	INW - Soolankottai	0.10LL	INW	1	2	1	1
30	INW - Ramakrishnampathi	0.30LL	INW	1	2	1	1
31	INW - Pananthoppu Gerigapalli	0.15LL	INW	1	2	1	1
32	INW - Soolakarai	0.30LL	INW	1	2	1	1
33	INW - Ollaipatti X Road	0.10LL	INW	1	2	1	1
34	INW - Pulayanur X Road	0.10LL	INW	1	2	1	1
35	INW - Salakokkarapatti	0.15LL	INW	1	2	1	1
36	INW - Thanjanvattam	0.30LL	INW	1	2	1	1
37	INW - Sanipatti Goundanur	0.30LL	INW	1	2	1	1
38	INW - Samalpatti	0.30LL	INW	2	2	1	1
39	INW - Kunathur	0.60LL	INW	3	2	1	1
40	INW - Puliyanthoppu Kalarpathi	0.10LL	INW	3	2	1	1
41	INW - Mathur	1.00LL	INW	3	2	1	1
42	INW - Kodamandapatti	0.60LL	INW	3	2	1	1
43	INW - Kannukanur	0.60LL	INW	3	2	1	1
	Uthangarai union						
44	Kallavi Booster Pumping station	3.00LL	ITM	20	2	1	1
45	INW - Reddipatti (Thippampatti)	0.10LL	INW	1	2	1	1
46	INW - Mittapalli (Ramnaickenpatti)	0.10LL	INW	1	2	1	1
47	INW - Mettuthangel (AD.Colony)	0.15LL	INW	2	2	1	1
48	INW - Pavakkal (Gandhinagar)	0.10LL	INW	1	2	1	1
49	INW - Mittapalli (Parasuramkottai)	0.10LL	INW	1	2	1	1
50	INW - Mittapalli (Kallurankottai)	0.10LL	INW	1	2	1	1
51	INW -Upparapatti (Santhakottur)	0.30LL	INW	1	2	1	1
52	INW - Govinapuram (Gadaganur)	0.10LL	INW	1	2	1	1
53	INW - Singarapettai (Puliyannur)	0.10LL	INW	1	2	1	1
54	INW - Gangabrampatti	0.10LL	INW	1	2	1	1
55	INW - TP (Narayan nagar)	2.5LL	INW	10	2	1	1
56	INW - Nochipatti (Vellalapatti)	0.30LL	INW	2	2	1	1
	Pennagaram union						
57	Madam Booster Pumping (P1)	5.00LL	ITM	20	2	1	1
58	Madam Booster Pumping (P2)	5.00LL	ITM	25	2	1	1
59	Anjehalli BPT	2.00LL	ITM	10	2	1	1
60	Senganur (1.50LL)	1.50LL	ITM	5	2	1	1
61	BPS to Bathrahalli	0.30LL	INW	4	2	1	1
62	Batharahalli BPS to Aralkundhi	0.30LL	INW	4	2	1	1
63	Manjarahalli @ Shellamudi	2.00LL	ITM	10	2	1	1
64	Palikadu (Arakasanahalli Panchayath)	0.10LL	INW	5	2	1	1

65	Kodupatty (Vattuvanahalli Panchayath)	0.30LL	INW	3	2	1	1
66	Ettipallam (Kookuttamarathuhalli Panchayath)	0.30LL	INW	3	2	1	1
67	Bodampatty (Gendayanahalli)	0.15LL	INW	5	2	1	1
68	Nagamarai-I (Kattur)	0.10LL	INW	1	2	1	1
69	Sunjalnatham	1.50LL	INW	7.5	2	1	1
70	Koothapadi -Kullathirampatty	0.30LL	INW	1	2	1	1
71	Manjanaickanahalli (Godalpatti)	0.15LL	INW	1	2	1	1
72	Chinnampalli (RR Halli)	0.15LL	INW	1	2	1	1
73	Gendayanahalli (Kavakadu)	0.30LL	INW	1	2	1	1
74	Vattuvanahalli (Narayanankottai)	0.10LL	INW	1	2	1	1
75	Paruvathanahalli -Near MBR	0.60LL	INW	3	2	1	1
76	Nagamarai MBR	0.60LL	INW	3	2	1	1
77	Biliyanur -Bikkampatty	0.30LL	INW	2	2	1	1
78	Sunjalnatham (moolabellur)	0.15LL	INW	3	2	1	1
79	Koothapadi-Pocharampatty	0.30LL	INW	3	2	1	1
80	Ajjanahalli (Chinnapallanur)	0.30LL	INW	3	2	1	1
81	Anjehalli-Rangapuram	0.60LL	INW	3	2	1	1
82	Arakasanahalli - Mettukkal Kombai	0.10LL	INW	3	2	1	1
83	Arakasanahalli (Jarugu road)	1.00LL	INW	2	2	1	1
84	Vattuvanahalli -Reddiyarkottai	0.30LL	INW	7.5	2	1	1
85	Senganur-Mallapuram	0.30LL	INW	1	2	1	1
86	Paravathanahalli -Barriel yard	0.60LL	INW	3	2	1	1
87	Biliyanur - Nagadasampatti	1.00LL	INW	3	2	1	1
88	Perumbalai – Samathal	0.60LL	INW	6	2	1	1
89	Manjanaickanahalli- Thinnur	0.60LL	INW	3	2	1	1
90	Chinnampalli - Tholur kombai	0.10LL	INW	2	2	1	1
91	Chinnampalli – kariyakatuvalasu	0.10LL	INW	2	2	1	1
	Nallampalli union						
92	Earupalli Booster Pumping station	2.50LL	ITM	20	2	1	1
93	Sowlur Booster Pumping (P1)	14.00LL	ITM	15	2	1	1
94	Sowlur Booster Pumping (P2)	14.00LL	ITM	40	2	1	1
95	Sowlur Booster Pumping (P3)	14.00LL	ITM	75	2	1	1
96	INW- Thinnahalli	2.00LL	ITM	2	2	1	1
97	INW- Thinnahalli	2.00LL	ITM	4	2	1	1
98	INW- Laligam	1.00LL	INW	3	2	1	1
99	INW- Laligam	1.00LL	INW	3	2	1	1
100	INW- Nallampalli	1.50LL	INW	3	2	1	1
101	INW- Nallampalli	1.50LL	INW	3	2	1	1
102	INW- Narthampatty	0.60LL	INW	3	2	1	1
103	INW- Narthampatty	1.00LL	INW	1	2	1	1
104	INW- Narthampatty	1.00LL	INW	4	2	1	1
105	INW- Mittareddihalli	0.60LL	INW	3	2	1	1

106	INW- Mittareddihalli	0.60LL	INW	4	2	1	1
107	INW- Madhenmangalam	0.30LL	INW	1	2	1	1
108	INW- Boothanahalli	0.30LL	INW	1	2	1	1
109	INW - Ramarkoodal	0.30LL	INW	2	2	1	1
110	INW- Dhalavahalli (Nehru nagar)	0.30LL	INW	2	2	1	1
111	INW- Bedrahalli (ArukaniKottai)	0.10LL	INW	1	2	1	1
112	INW- Bedrahalli (Kallikottai)	0.30LL	INW	1	2	1	1
113	INW- Konangihalli (Murugananthapuram)	0.60LL	INW	2	2	1	1
114	ITM- Palavadi	1.00LL	ITM	2	2	1	1
115	ITM- Palavadi	1.00LL	ITM	2	2	1	1
116	INW- Konangihalli (Thamari Eari)	0.60LL	INW	3	2	1	1
117	INW- Indur	0.60LL	INW	3	2	1	1
118	ITM- Somanahalli	3.00LL	ITM	10	2	1	1
119	ITM- Somanahalli	3.00LL	INW	3	2	1	1
120	ITM- Somanahalli	3.00LL	INW	3	2	1	1
121	ITM- Anna Nagar	1.50LL	INW	5	2	1	1
122	INW- Avvai Colony	0.10LL	INW	1	2	1	1
123	INW- Maniyathahalli Podarankottai	0.60LL	INW	1	2	1	1
124	INW-Maniyathahalli Jarugu	0.60LL	INW	3	2	1	1
125	INW- Balajangamanahalli	0.30LL	INW	1	2	1	1
126	INW- Balajangamanahalli	0.30LL	INW	3	2	1	1
127	INW- Athiyamankottai	2.00LL	INW	1	2	1	1
128	INW- Athiyamankottai	2.00LL	INW	7.5	2	1	1
129	INW-Palayampudur (Samathuvapuram)	0.10LL	INW	1	2	1	1
130	INW- Palayampudur (Kombai)	0.60LL	INW	1	2	1	1
131	INW- Palayampudur (Kamarajnagar)	0.60LL	INW	1	2	1	1
132	INW- Thadangam (kakkanjipuram)	0.60LL	INW	3	2	1	1
133	ITM- Maniyathanahalli	1.00LL	ITM	5	2	1	1
134	INW- Elagiri	0.60LL	INW	4	2	1	1
135	INW- Errabynahalli-Nekkundhi	1.00LL	INW	4	2	1	1
	Total			1192HP	890 KW		

Table 7. Valve Details

Sl. No	Particulars	Unit	Total No.of Valves		
			Sluice Valve	Scour Valve	Air Valve
1	Transmission Main (600 & 1000MS)	Nos	15	13	71
	Transmission Main (500,450 & 350DI)	Nos	4	6	25
2	Feeder Main	Nos	13	13	53

3	ITM - Pennagaram union	Nos	53	51	222
4	INW - Pennagaram union	Nos	322	80	412
5	ITM - Nallampalli union	Nos	37	32	90
6	INW - Nallampalli union	Nos	535	254	641
7	ITM - Dharmapuri union	Nos	22	20	73
8	INW - Dharmapuri union	Nos	293	150	305
9	ITM - Mathur union	Nos	32	42	102
10	INW - Mathur union	Nos	412	141	318
11	ITM - Uthangarai union	Nos	58	60	181
12	INW - Uthangarai union	Nos	338	146	478
	Total		2134 Nos	1008 Nos	2971 Nos
	Grand Total		6113 Nos		

(UR-Union Reservoir, PR-Panchayat Reservoir, GLR-Ground Level Reservoir, ER-Elevated Reservoir)
N/A- Not applicable

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, Hogenakkal Project House Campus, A.Jettihalli (PO), Dharmapuri 636807 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, Hogenakkal Project House Campus, A.Jettihalli (PO), Dharmapuri 636807 by remitting the required. 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 condition s 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 23.15 Crore
b	Minimum Cash Flow: Minimum Cash flow required in Rs... in Crore	Rs 1.45 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.23.15 Crores in the last five financial years (2014-15 to 2018-19) either a) in single agreement or b) in two agreements	Rs 23.15 Crore Rs 34.73 Crore
d	Bid capacity The available Bid capacity	Rs 23.15 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	49.00 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	192.00 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) 19.00 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.	178 KW

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.17.40 Lakhs (Rupees Seventeen lakhs and forty thousand only)** duly pledged in favour of the Executive Engineer, TWAD Board, Project Maintenance Division, Dharmapuri 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 II

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, Dharmapuri-636807 **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, Dharmapuri-636807

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 conformed 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 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 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 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)

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.

Tenderer

Chief Engineer, TWAD Board, Vellore

- (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
Tenderer
Chief Engineer, TWAD Board, Vellore

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.

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 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>, 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 condition. 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
<p>As enclosed in Volume-5 " List of Equipments"</p>			

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 bye	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 =

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

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 =

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

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 as per clause 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 II

Sl. No	Name of Corporation / Municipality / Town Panchayat/ Unio	Panchayat Name	Habitation Name	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									
1	Town Panchayat	Pennagaram TP		809091						
2	Town Panchayat	Uthangarai TP		727273						
1	PENNAGARAM	Paruvathanahalli	Paruvathanahalli	19100						
2	PENNAGARAM	Paruvathanahalli	Noolahalli	16560						
3	PENNAGARAM	Paruvathanahalli	Kallipuram Melur	22130						
4	PENNAGARAM	Paruvathanahalli	Poonaigundu Golla Kottai	12870						
5	PENNAGARAM	Paruvathanahalli	Jamathkollai	6260						
6	PENNAGARAM	Paruvathanahalli	Thiruvalluvar Nagar	18630						
7	PENNAGARAM	Paruvathanahalli	Annanagar Colony	15400						
8	PENNAGARAM	Paruvathanahalli	Ettikuttai	8330						
9	PENNAGARAM	Paruvathanahalli	Erankadu	8420						
10	PENNAGARAM	Paruvathanahalli	Kattukottai	15810						
11	PENNAGARAM	Paruvathanahalli	Paruvathana Halli Pudur	15210						
12	PENNAGARAM	Paruvathanahalli	Annanagar -H	4230						
13	PENNAGARAM	Paruvathanahalli	Anna Nagar AR Colony	2380						
14	PENNAGARAM	Paruvathanahalli	Avai Nagar	3790						
15	PENNAGARAM	Paruvathanahalli	Anna Nagar AD Colony	3790						
16	PENNAGARAM	Paruvathanahalli	Gettu kottai	3790						
17	PENNAGARAM	Paruvathanahalli	Mekkalanthittu	3760						

18	PENNAGARAM	Sathiyathapuram	Mottupatti East	8330					
19	PENNAGARAM	Sathiyathapuram	Anaikallanur	33340					
20	PENNAGARAM	Sathiyathapuram	Kottavoor	30270					
21	PENNAGARAM	Sathiyathapuram	Mandhirigoundankottai	3790					
22	PENNAGARAM	Sathiyathapuram	Kriyampatti	45330					
23	PENNAGARAM	Sathiyathapuram	Ettipallam	3790					
24	PENNAGARAM	Sathiyathapuram	Mottupatti West	43260					
25	PENNAGARAM	Senganoor	Naganoor	33030					
26	PENNAGARAM	Senganoor	Rajavoor	33930					
27	PENNAGARAM	Senganoor	Jangamayanur	20660					
28	PENNAGARAM	Senganoor	Mallapuram	33150					
29	PENNAGARAM	Senganoor	Venkatan Kottai @Senganoor	3790					
30	PENNAGARAM	Senganoor	Nachanoor	14490					
31	PENNAGARAM	Senganoor	Nachanoor Kottai	8390					
32	PENNAGARAM	Senganoor	Chinnapallathur	23980					
33	PENNAGARAM	Senganoor	Periya Pallathur	10390					
34	PENNAGARAM	Senganoor	Naganoor Ar Colony	1630					
35	PENNAGARAM	Kodihall	Godaran Patti	12990					
36	PENNAGARAM	Kodihall	Jakkampatti	22260					
37	PENNAGARAM	Kodihall	Kodupallam	6260					
38	PENNAGARAM	Kodihall	Devipuram @ Ondikottai	11960					
39	PENNAGARAM	Kodihall	Tea Kadai	12870					
40	PENNAGARAM	Kodihall	Jakkam Patti Colony	8420					
41	PENNAGARAM	Kodihall	Gandhi Nagar	7000					
42	PENNAGARAM	Kodihall	Moolaline	3790					
43	PENNAGARAM	Kodihall	Poochalampattikattuvalau	3790					
44	PENNAGARAM	Koothapadi	Koothapadi	54220					
45	PENNAGARAM	Koothapadi	Amma Pallam	3790					
46	PENNAGARAM	Koothapadi	Koothapadi AR Colony	3790					
47	PENNAGARAM	Koothapadi	Madam	58010					
48	PENNAGARAM	Koothapadi	K.Agraharam	45330					
49	PENNAGARAM	Koothapadi	Halepuram	39130					
50	PENNAGARAM	Koothapadi	Kulathirampatti	39130					
51	PENNAGARAM	Koothapadi	Kulathirampatti Pudur	17810					
52	PENNAGARAM	Koothapadi	Pocharampatti	37630					
53	PENNAGARAM	Koothapadi	Ramankottai	4260					
54	PENNAGARAM	Koothapadi	Boothappan Kottai	5260					
55	PENNAGARAM	Koothapadi	Aranmani Pallathur	8330					
56	PENNAGARAM	Koothapadi	Hogenakkal	30960					
57	PENNAGARAM	Koothapadi	Oottamalai	32880					
58	PENNAGARAM	Koothapadi	(Penneapatty Irularcolony) Oottamalai colony	3790					
59	PENNAGARAM	Vattuvanahalli	Dasampatti	19160					
60	PENNAGARAM	Vattuvanahalli	Kuli Patti	10140					

61	PENNAGARAM	Vattuvanahalli	Uppalapuram	3790					
62	PENNAGARAM	Vattuvanahalli	Chinnasamy kottai	3790					
63	PENNAGARAM	Vattuvanahalli	Marukkampatti	19690					
64	PENNAGARAM	Vattuvanahalli	Reddiyar Kottai	6260					
65	PENNAGARAM	Vattuvanahalli	Elumalamanthai	18190					
66	PENNAGARAM	Vattuvanahalli	Pavalanthur	13270					
67	PENNAGARAM	Vattuvanahalli	Narayanankottai	3790					
68	PENNAGARAM	Vattuvanahalli	Murungamarathuarsu	12080					
69	PENNAGARAM	Vattuvanahalli	Sakkilinatham	12650					
70	PENNAGARAM	Vattuvanahalli	Arujunankottai	4260					
71	PENNAGARAM	Vattuvanahalli	B. Kodupatti	3790					
72	PENNAGARAM	Vattuvanahalli	Kodupatti	23100					
73	PENNAGARAM	Vattuvanahalli	Ganthinager	3790					
74	PENNAGARAM	Vattuvanahalli	Thonnamarathukuli	3790					
75	PENNAGARAM	Billiyanur	Billiyanur	28860					
76	PENNAGARAM	Billiyanur	Nagadasampatti	52220					
77	PENNAGARAM	Billiyanur	Nagadasampatti AD Colony	3790					
78	PENNAGARAM	Billiyanur	Nagadasampatti Boyer Colony	3790					
79	PENNAGARAM	Billiyanur	Kottumarampatti	24760					
80	PENNAGARAM	Billiyanur	Gowrichettipatti	28860					
81	PENNAGARAM	Billiyanur	Kunuthathankottai	5260					
82	PENNAGARAM	Billiyanur	Nallanur	6260					
83	PENNAGARAM	Billiyanur	Karunganoor	4260					
84	PENNAGARAM	Billiyanur	Kullanur	18950					
85	PENNAGARAM	Billiyanur	Ramanur	5570					
86	PENNAGARAM	Billiyanur	Thalapallam	4260					
87	PENNAGARAM	Anjehalli	Chinnaperamanoor	41540					
88	PENNAGARAM	Anjehalli	Athanoor	41230					
89	PENNAGARAM	Anjehalli	Bethampatty	16650					
90	PENNAGARAM	Anjehalli	Nallaparapatty	28270					
91	PENNAGARAM	Anjehalli	Rengapuram Colony	23980					
92	PENNAGARAM	Anjehalli	Balinjarahalli	38940					
93	PENNAGARAM	Anjehalli	Gettur	37100					
94	PENNAGARAM	Anjehalli	Boothinatham	8330					
95	PENNAGARAM	Anjehalli	Bommalpatti Colony	2250					
96	PENNAGARAM	Anjehalli	Kakkinaickanahalli	12430					
97	PENNAGARAM	Anjehalli	Gundankattukuli	3790					
98	PENNAGARAM	Anjehalli	Bethampatti Mgr Nagar	15750					
99	PENNAGARAM	Manjanaickanahalli	Peiya Kadamadai	56790					
100	PENNAGARAM	Manjanaickanahalli	Kadamadai Periyar Nagar	3790					
101	PENNAGARAM	Manjanaickanahalli	Chinnakadamadai	20660					
102	PENNAGARAM	Manjanaickanahalli	Narasipuram Colony	6260					
103	PENNAGARAM	Manjanaickanahalli	Narasipuram	27420					

104	PENNAGARAM	Manjanaickanahalli	Kodalpatti	20130					
105	PENNAGARAM	Manjanaickanahalli	Pudupatti	41600					
106	PENNAGARAM	Manjanaickanahalli	Anbu Nagar (Bala nagar)	3790					
107	PENNAGARAM	Manjanaickanahalli	Ettikuli	16560					
108	PENNAGARAM	Manjanaickanahalli	Manjanaikanahalli	53840					
109	PENNAGARAM	Manjanaickanahalli	Avai Nagar	3790					
110	PENNAGARAM	Manjanaickanahalli	Varaguran Kottai	5700					
111	PENNAGARAM	Manjanaickanahalli	Kadamadai Jeeva nagar	3790					
112	PENNAGARAM	Manjanaickanahalli	Narasipuram New Colony	2000					
113	PENNAGARAM	Chinnampalli	Chinnampalli	35280					
114	PENNAGARAM	Chinnampalli	Ettukottai	2570					
115	PENNAGARAM	Chinnampalli	Tholur	15340					
116	PENNAGARAM	Chinnampalli	Bathirahalli	8010					
117	PENNAGARAM	Chinnampalli	Rasiravuthanahalli	30330					
118	PENNAGARAM	Chinnampalli	Galanackanur Kombai	8330					
119	PENNAGARAM	Chinnampalli	Galanaickanahalli	14430					
120	PENNAGARAM	Chinnampalli	Ettikal Kombai	4010					
121	PENNAGARAM	Chinnampalli	Chinnampalli Ad Colony	3880					
122	PENNAGARAM	Kalappampadi	Kalappampadi	31050					
123	PENNAGARAM	Kalappampadi	Pudu Kadu	6260					
124	PENNAGARAM	Kalappampadi	Indira Nagar	6260					
125	PENNAGARAM	Kalappampadi	Koppalur	37250					
126	PENNAGARAM	Kalappampadi	Thali Halli	6290					
127	PENNAGARAM	Kalappampadi	Thali Halli AR colony	3790					
128	PENNAGARAM	Kalappampadi	Kovalli Kombai	6140					
129	PENNAGARAM	Arakasanahalli	Bettagoundanoor	43510					
130	PENNAGARAM	Arakasanahalli	Kannipatti H	11020					
131	PENNAGARAM	Arakasanahalli	Bharathipuram	5450					
132	PENNAGARAM	Arakasanahalli	Manappankottai	10390					
133	PENNAGARAM	Arakasanahalli	Pallimuthanur	10390					
134	PENNAGARAM	Arakasanahalli	Errapatti	39910					
135	PENNAGARAM	Arakasanahalli	Pachayamman Kovil	6260					
136	PENNAGARAM	Arakasanahalli	Byappanahalli H	4230					
137	NALLAMPALLI	Indur	Nathahalli	26580					
138	NALLAMPALLI	Indur	Muthugoundanur	13710					
139	NALLAMPALLI	Indur	Indur	31870					
140	NALLAMPALLI	Indur	Hale Indur	26580					
141	NALLAMPALLI	Indur	Anjeneyar koil kottai	3880					
142	NALLAMPALLI	Indur	Erumaikaranpudur	15120					
143	NALLAMPALLI	Indur	Pacherian Kottai	7670					
144	NALLAMPALLI	Indur	Pappanpallam	12770					
145	NALLAMPALLI	Indur	Thukanankuruvikottai	3880					
146	NALLAMPALLI	Indur	Mottukollakottai	4960					
147	NALLAMPALLI	Indur	Theerthakullam	14370					
148	NALLAMPALLI	Indur	Kanmani kottai	4960					

149	NALLAMPALLI	Indur	Paraikottai	18880					
150	NALLAMPALLI	Indur	Indur North Side	11360					
151	NALLAMPALLI	Indur	Murugesan Kottai[n]	3880					
152	NALLAMPALLI	Indur	Semman kadu	3880					
153	NALLAMPALLI	Bommasamudiram	Bommasamudiram	51530					
154	NALLAMPALLI			51530					
155	NALLAMPALLI	Dhalavaihalli	Dhalavaihalli	13710					
156	NALLAMPALLI	Dhalavaihalli	Mariampatti	39820					
157	NALLAMPALLI	Dhalavaihalli	Srigalur	20720					
158	NALLAMPALLI	Dhalavaihalli	Nagalapuram	17500					
159	NALLAMPALLI	Dhalavaihalli	Nehru Nagar	4820					
160	NALLAMPALLI	Dhalavaihalli	Pallapatty	36030					
161	NALLAMPALLI	Dhalavaihalli	Konapallam Vanniyar	7670					
162	NALLAMPALLI	Dhalavaihalli	Periandavar Koil Kottai[n]	7670					
163	NALLAMPALLI	Konangihalli	Konangihalli	19000					
164	NALLAMPALLI	Konangihalli	Konangi Halli Kottai	19750					
165	NALLAMPALLI	Konangihalli	Athiyaman Kottai, Nagar (kangankotti)	3790					
166	NALLAMPALLI	Konangihalli	Erupalli colony	3790					
167	NALLAMPALLI	Konangihalli	Thinnapatty	22790					
168	NALLAMPALLI	Konangihalli	Thinnapatty Muniappankoilkottai	3790					
169	NALLAMPALLI	Konangihalli	Arichandranur	19000					
170	NALLAMPALLI	Konangihalli	B.Agraharam Colony	12620					
171	NALLAMPALLI	Konangihalli	Chikkagoundanahalli	22790					
172	NALLAMPALLI	Konangihalli	Chikkampattipudur	22790					
173	NALLAMPALLI	Konangihalli	Kattampattiyankottai	7670					
174	NALLAMPALLI	Konangihalli	Thamara Eri -H[n]	4730					
175	NALLAMPALLI	Konangihalli	Erupalli Anna Nagar[n]	3880					
176	NALLAMPALLI	Panganatham	Goundankottai	4820					
177	NALLAMPALLI	Panganatham	Rajanagaram	3790					
178	NALLAMPALLI	Panganatham	Thirupathykottai	3790					
179	NALLAMPALLI	Panganatham	Kannamalkottai	3790					
180	NALLAMPALLI	Panganatham	Rajagollahalli	16000					
181	NALLAMPALLI	Panganatham	Makkankottai	7670					
182	NALLAMPALLI	Panganatham	Chinnaiyanur	7670					
183	NALLAMPALLI	Panganatham	Vetrayankottai	5130					
184	NALLAMPALLI	Panganatham	Kuntankottai	4630					
185	NALLAMPALLI	Panganatham	Thippatti	19000					
186	NALLAMPALLI	Panganatham	Rajathippu	15210					
187	NALLAMPALLI	Panganatham	Kolimukankottai	3790					
188	NALLAMPALLI	Panganatham	Arakasankottai	5040					
189	NALLAMPALLI	Panganatham	Maveettu Kottai [n]	4290					
190	NALLAMPALLI	Panganatham	Vellakannan Kottai [n]	3880					
191	NALLAMPALLI	Somenahalli	Somenahalli	25830					

192	NALLAMPALLI	Somenahalli	Bolparai	6170					
193	NALLAMPALLI	Somenahalli	Mallapuram	22790					
194	NALLAMPALLI	Somenahalli	Kusankottai	3790					
195	NALLAMPALLI	Somenahalli	Periathambikottai	3790					
196	NALLAMPALLI	Somenahalli	Gounder kottai	3790					
197	NALLAMPALLI	Somenahalli	Kuppuchettipatti	30330					
198	NALLAMPALLI	Somenahalli	Soorappan Goundan Kottai	5790					
199	NALLAMPALLI	Somenahalli	Korapalli Pudur	19000					
200	NALLAMPALLI	Somenahalli	Ellanpallathu Kottai	4820					
201	NALLAMPALLI	Somenahalli	Vanathu Kottai	4820					
202	NALLAMPALLI	Somenahalli	Somenahalli Colony [n]	14870					
203	NALLAMPALLI	Somenahalli	Thekkankottai	7670					
204	NALLAMPALLI	Nallampalli	Nallampalli	30930					
205	NALLAMPALLI	Nallampalli	Sowluran Kottai	10520					
206	NALLAMPALLI	Nallampalli	Abusamudiram	23540					
207	NALLAMPALLI	Nallampalli	Kovilar	23540					
208	NALLAMPALLI	Nallampalli	Gopalampatti	17120					
209	NALLAMPALLI	Nallampalli	Kamaraj Nagar	22790					
210	NALLAMPALLI	Nallampalli	Vairagoundanpudur	22790					
211	NALLAMPALLI	Nallampalli	Nallampalli Colony	26450					
212	NALLAMPALLI	Nallampalli	Palani Nagar & Kaveri Nagar	20910					
213	NALLAMPALLI	Nallampalli	Nallampalli New Colony [n]	18660					
214	NALLAMPALLI	Nallampalli	Militerikaran Kottai	3880					
215	NALLAMPALLI	Balasangamanahalli	Balasangamanahalli	31120					
216	NALLAMPALLI	Balasangamanahalli	Marikottai	12020					
217	NALLAMPALLI	Balasangamanahalli	BUDDANKOTTAI	11460					
218	NALLAMPALLI	Balasangamanahalli	Gopalkottai	29110					
219	NALLAMPALLI	Balasangamanahalli	NANJANKOTTAI	7860					
220	NALLAMPALLI	Balasangamanahalli	POOSARIKOTTAI	9920					
221	NALLAMPALLI	Balasangamanahalli	Kurumbarkottai	10860					
222	NALLAMPALLI	Balasangamanahalli	Palanigoundankottai	5790					
223	NALLAMPALLI	Balasangamanahalli	Athigoundankottai	3880					
224	NALLAMPALLI	Balasangamanahalli	Muthugoundankottai	5790					
225	NALLAMPALLI	Balasangamanahalli	Selliamman Koil	3880					
226	NALLAMPALLI	Boothanahalli	Boothanahalli	11460					
227	NALLAMPALLI	Boothanahalli	Boothanahalli Kottai	7290					
228	NALLAMPALLI	Boothanahalli	Vellalankottai	9800					
229	NALLAMPALLI	Boothanahalli	Sathya Nagar[n]	2660					
230	NALLAMPALLI	Boothanahalli	Anna Nagar	2250					
231	NALLAMPALLI	Boothanahalli	Kuppan Kottai	3130					
232	NALLAMPALLI	Boothanahalli	Uthupallathu Kottai	3880					
233	NALLAMPALLI	Boothanahalli	Vannankulayhu Kottai	2380					
234	NALLAMPALLI	Athiyaman Kottai	Athiyaman Kottai	32620					
235	NALLAMPALLI	Athiyaman Kottai	Devarasanpatti	20910					

236	NALLAMPALLI	Athiyaman Kottai	Athiyaman Kottai - H	22790					
237	NALLAMPALLI	Athiyaman Kottai	Annai Sathiya Colony	6170					
238	NALLAMPALLI	Athiyaman Kottai	Elagiriyan Kottai	25640					
239	NALLAMPALLI	Athiyaman Kottai	New Colony	7580					
240	NALLAMPALLI	Athiyaman Kottai	Vetrilaikaranpallam	24700					
241	NALLAMPALLI	Athiyaman Kottai	Thathagoundan Kottai	22700					
242	NALLAMPALLI	Athiyaman Kottai	Puravadai	22410					
243	NALLAMPALLI	Athiyaman Kottai	Korapulian Kottai	21850					
244	NALLAMPALLI	Athiyaman Kottai	Vadakutherukottai	23200					
245	NALLAMPALLI	Athiyaman Kottai	Jeeva Nagar	6920					
246	NALLAMPALLI	Athiyaman Kottai	Tata Nagar	26420					
247	NALLAMPALLI	Athiyaman Kottai	Mundasur Puravadai[n]	14870					
248	NALLAMPALLI	Athiyaman Kottai	Athukottai	3880					
249	NALLAMPALLI	Athiyaman Kottai	Indira Nagar	3880					
250	NALLAMPALLI	Athiyaman Kottai	Jagiri	3880					
251	NALLAMPALLI	Athiyaman Kottai	Kottakarai Arunthathiar	4700					
252	NALLAMPALLI	Laligam	Laligam	77540					
253	NALLAMPALLI	Laligam	Kattukaratheru Kottai	19410					
254	NALLAMPALLI	Laligam	Laligam - H.C	8420					
255	NALLAMPALLI	Laligam	Pasakalaithoppu	7670					
256	NALLAMPALLI	Thadangam	Thadangam	22790					
257	NALLAMPALLI	Thadangam	Irular Kottai	8230					
258	NALLAMPALLI	Thadangam	Iyyar Kottai	8230					
259	NALLAMPALLI	Thadangam	Thokkampattiyam Kottai	6320					
260	NALLAMPALLI	Thadangam	Kakkanjipuram - H	22790					
261	NALLAMPALLI	Thadangam	Oddapatti Kottai @ Sathiya Nagar	18090					
262	NALLAMPALLI	Thadangam	Thokkampatti	19000					
263	NALLAMPALLI	Thadangam	Thalapallam	14650					
264	NALLAMPALLI	Thadangam	Kakkanji Puram Colony	18060					
265	NALLAMPALLI	Thadangam	Sowlupatti	18060					
266	NALLAMPALLI	Thadangam	Thadangam Colony[n]	3880					
267	NALLAMPALLI	Thadangam	Jeeva Nagar[n]	3880					
268	NALLAMPALLI	Thadangam	Kothadimai Colony	3880					
269	NALLAMPALLI	Thadangam	Sitheswara Nagar	3880					
270	NALLAMPALLI	Thadangam	VIP Nagar	4740					
271	NALLAMPALLI	Pagalahalli	Pagalahalli	30330					
272	NALLAMPALLI	Pagalahalli	Pagalahalli Old H.C.	14870					
273	NALLAMPALLI	Pagalahalli	Chinnagoundan Kottai	6540					
274	NALLAMPALLI	Pagalahalli	Gengalapuram	15210					
275	NALLAMPALLI	Pagalahalli	Sowlur	14120					
276	NALLAMPALLI	Pagalahalli	Vetrayan Kottai	14120					
277	NALLAMPALLI	Pagalahalli	Marulkarankottai	14650					
278	NALLAMPALLI	Pagalahalli	Keel Kottavur	7670					
279	NALLAMPALLI	Pagalahalli	Jadayan Kottai	5790					

280	NALLAMPALLI	Pagalahalli	Mettu Kottai	11460					
281	NALLAMPALLI	Pagalahalli	Dhadukaranpatti	30330					
282	NALLAMPALLI	Pagalahalli	Kurumpatti	17120					
283	NALLAMPALLI	Pagalahalli	Patagampatti	16370					
284	NALLAMPALLI	Pagalahalli	Sundaragoundan Kottai	9170					
285	NALLAMPALLI	Pagalahalli	Pachiappan Kottai	15400					
286	NALLAMPALLI	Pagalahalli	Anna Nagar	3880					
287	NALLAMPALLI	Pagalahalli	Dhandugampatty-H	9770					
288	NALLAMPALLI	Pagalahalli	Kanjamalai Kottai[n]	3880					
289	NALLAMPALLI	Pagalahalli	Perumal Kottai[n]	3880					
290	NALLAMPALLI	Palayampudur	Palayampudur	62480					
291	NALLAMPALLI	Palayampudur	Boyar Kottai	4630					
292	NALLAMPALLI	Palayampudur	Sani Sandai	5260					
293	NALLAMPALLI	Palayampudur	Thumbaragampatti	26580					
294	NALLAMPALLI	Palayampudur	Thumbaragampatti Kottai	3880					
295	NALLAMPALLI	Palayampudur	Guttur	15120					
296	NALLAMPALLI	Palayampudur	Ranagasamygoundan Kottai	6730					
297	NALLAMPALLI	Palayampudur	Kombai	22540					
298	NALLAMPALLI	Palayampudur	Subbukottai	6730					
299	NALLAMPALLI	Palayampudur	Appasamykottai	10520					
300	NALLAMPALLI	Palayampudur	Kuppaiyan Kottai	14310					
301	NALLAMPALLI	Palayampudur	M.G.R.Nagar	3880					
302	NALLAMPALLI	Palayampudur	Irulamuthu Kurumbarkottai[n]	9580					
303	NALLAMPALLI	Palayampudur	Samathuvapuram	3880					
304	NALLAMPALLI	Sivadi	Sivadi-H	49050					
305	NALLAMPALLI	Sivadi	Ramayana Chinna Halli	19000					
306	NALLAMPALLI	Sivadi	Kamaraj Nagar Colony	7290					
307	NALLAMPALLI	Sivadi	Kombai Kottai	6170					
308	NALLAMPALLI	Sivadi	Uthupallam Kottai	14310					
309	NALLAMPALLI	Sivadi	Kandugal Patti -H	17690					
310	NALLAMPALLI	Sivadi	Sivadi Vanniyar Street	3880					
311	NALLAMPALLI	Sivadi	Sivadi Uthupallam[n]	5790					
312	NALLAMPALLI	Elagiri	Elagiri	30330					
313	NALLAMPALLI	Elagiri	PALAYA ELAGIRI	19000					
314	NALLAMPALLI	Elagiri	Palani Goundan Kottai	13620					
315	NALLAMPALLI	Elagiri	Manaluran Kottai	4480					
316	NALLAMPALLI	Elagiri	Omali Natham	13180					
317	NALLAMPALLI	Elagiri	Kothamallikaran Kottai	4070					
318	NALLAMPALLI	Elagiri	Mel Kottayur	11830					
319	NALLAMPALLI	Elagiri	Kali Goundan Kottai	10710					
320	NALLAMPALLI	Elagiri	Vella Kannan Kottai	4480					
321	NALLAMPALLI	Elagiri	Akoli Kottai	6790					
322	NALLAMPALLI	Elagiri	Mutham Patty	15120					

323	NALLAMPALLI	Elagiri	Sendrayan Kottai	3880					
324	NALLAMPALLI	Elagiri	Bolanahalli[n]	3880					
325	NALLAMPALLI	Elagiri	Singaravelu Kottai[n]	3880					
326	NALLAMPALLI	Elagiri	Balan Thoppu	3880					
327	NALLAMPALLI	Elagiri	ChinnaKulanthai Kottai	3910					
328	NALLAMPALLI	Elagiri	Kamarai Nagar	3910					
329	NALLAMPALLI	Madhemangalam	Madhemangalam - H	41700					
330	NALLAMPALLI	Madhemangalam	Venkatampatty	41700					
331	NALLAMPALLI	Madhemangalam	V.Guddur	32620					
332	NALLAMPALLI	Madhemangalam	Palayathanur	17500					
333	NALLAMPALLI	Madhemangalam	Venkattampatty Pudur	22790					
334	NALLAMPALLI	Madhemangalam	Narayanasamy Kottai	5040					
335	NALLAMPALLI	Madhemangalam	Vellacheri Kuttai[n]	5790					
336	DHARMAPURI	A.Gollahalli	Gollahalli	30770					
337	DHARMAPURI	A.Gollahalli	Gollahalli New Colony	4570					
338	DHARMAPURI	A.Gollahalli	Kottaimedu	13150					
339	DHARMAPURI	A.Gollahalli	Gollahalli Palayur	4570					
340	DHARMAPURI	A.Gollahalli	Gollahalli Pudur	18190					
341	DHARMAPURI	A.Gollahalli	Naickenpatti Gollakottai	4570					
342	DHARMAPURI	A.Gollahalli	Santhanoor	4570					
343	DHARMAPURI	A.Gollahalli	Anna Nagar	5450					
344	DHARMAPURI	A.Gollahalli	Modakeriabimankottai	4570					
345	DHARMAPURI	A.Gollahalli	Modakerithal Padiyankottai	4570					
346	DHARMAPURI	A.Gollahalli	Modakeri	4570					
347	DHARMAPURI	A.Gollahalli	Modakeri Pudukudiyankottai	4570					
348	DHARMAPURI	A.Gollahalli	Monnaiyankottai	4570					
349	DHARMAPURI	Elakkiampatty	Pidamaneri	129040					
350	DHARMAPURI	Elakkiampatty	Manthoppu	31020					
351	DHARMAPURI	Elakkiampatty	V.Jettihalli--H	54190					
352	DHARMAPURI	Elakkiampatty	Leprosy Colony	3790					
353	DHARMAPURI	Elakkiampatty	Ellakkiampatty	48680					
354	DHARMAPURI	Elakkiampatty	Setnhil Nagar	35370					
355	DHARMAPURI	Elakkiampatty	Fair Land	40510					
356	DHARMAPURI	Elakkiampatty	Athiyamanagar	23480					
357	DHARMAPURI	Elakkiampatty	Annanagar Treasury Colony	35370					
358	DHARMAPURI	Elakkiampatty	Annaithearasa Colony	8700					
359	DHARMAPURI	Elakkiampatty	Teachers Colony	41700					
360	DHARMAPURI	Elakkiampatty	Vedivei Gounder St	21380					
361	DHARMAPURI	Elakkiampatty	Senthil Nagar Eb Colony	39790					
362	DHARMAPURI	Elakkiampatty	Sriram Colony	21290					
363	DHARMAPURI	Elakkiampatty	Annanagar Hc	5570					
364	DHARMAPURI	Elakkiampatty	Kaveri Colony	14620					
365	DHARMAPURI	Elakkiampatty	Veppamarathukottai	11080					

366	DHARMAPURI	Elakkiampatty	Gunnikottai@ Ammasikottai	5570					
367	DHARMAPURI	Elakkiampatty	Police Colony	34120					
368	DHARMAPURI	Elakkiampatty	Kullanoor	29490					
369	DHARMAPURI	Elakkiampatty	Vennampatty	33840					
370	DHARMAPURI	Elakkiampatty	Anna Nagar	4570					
371	DHARMAPURI	Elakkiampatty	Agri Nagar	4980					
372	DHARMAPURI	Elakkiampatty	TNHB Colony	3880					
373	DHARMAPURI	Elakkiampatty	Vennampatty Ashok Nagar	3130					
374	DHARMAPURI	Elakkiampatty	Viswanathan Nagar	3880					
375	DHARMAPURI	Kadagathur	Kadagathur Colony	17720					
376	DHARMAPURI	Kadagathur	Kadagathur	125590					
377	DHARMAPURI	Kadagathur	Pachinampatti	28770					
378	DHARMAPURI	Kadagathur	JJ Nagar	3040					
379	DHARMAPURI	Kadagathur	Kutta kottai	3880					
380	DHARMAPURI	K.Naduhalli	K.Naduhalli	40820					
381	DHARMAPURI	K.Naduhalli	Thoppukarankottai	3860					
382	DHARMAPURI	K.Naduhalli	Kaverikottai	23480					
383	DHARMAPURI	K.Naduhalli	SOWLUR	24390					
384	DHARMAPURI	K.Naduhalli	Nagarasampatti	19880					
385	DHARMAPURI	K.Naduhalli	Kolagathur New Colony	4010					
386	DHARMAPURI	K.Naduhalli	Mathikaran kottai	4350					
387	DHARMAPURI	K.Naduhalli	Munuappan Koil Kottai	4040					
388	DHARMAPURI	Adagapadi	Adagapadi	30330					
389	DHARMAPURI	Adagapadi	Adagapadi New Colony	3790					
390	DHARMAPURI	Adagapadi	Adagapadi-Hc	22790					
391	DHARMAPURI	Adagapadi	Adagapadi New Hc	4510					
392	DHARMAPURI	Adagapadi	Masiyampatty	18440					
393	DHARMAPURI	Adagapadi	Kunjikottai	13370					
394	DHARMAPURI	Adagapadi	Thadangam	22130					
395	DHARMAPURI	Adagapadi	Vellai Vinayaga Puram	4510					
396	DHARMAPURI	Adagapadi	Erikodi Bus Stop	4510					
397	DHARMAPURI	Adagapadi	Kattumariamman Koil	8920					
398	DHARMAPURI	Adagapadi	Raman Kottai	9360					
399	DHARMAPURI	Adagapadi	Kullampatty	15560					
400	DHARMAPURI	Adagapadi	Chinnagampatty	22130					
401	DHARMAPURI	Adagapadi	Poosalikottai	4510					
402	DHARMAPURI	Adagapadi	Kuilan Thoppu-N	6040					
403	DHARMAPURI	Adagapadi	Selathu Mariamman koil	7390					
404	DHARMAPURI	Sogathur	Reddihally	22790					
405	DHARMAPURI	Sogathur	Sowlupatty	22790					
406	DHARMAPURI	Sogathur	Keelsowlupatty	17720					
407	DHARMAPURI	Sogathur	Melamattukaranur	22130					
408	DHARMAPURI	Sogathur	Hosahalli	19940					
409	DHARMAPURI	Sogathur	Sathiyanager Boyar Colony	15430					

410	DHARMAPURI	Sogathur	Sogathur	31680					
411	DHARMAPURI	Sogathur	S.Mettuthuru	15310					
412	DHARMAPURI	Sogathur	Nallagoundanahalli	24010					
413	DHARMAPURI	Sogathur	Posaripatty	22130					
414	DHARMAPURI	Sogathur	Posaripaty Golla Kottai	6730					
415	DHARMAPURI	Sogathur	Attukaranpatty Sirupillai	6140					
416	DHARMAPURI	Kuppur	C.KURUMPATTI	22130					
417	DHARMAPURI	Kuppur	P.Kuppur	23540					
418	DHARMAPURI	Kuppur	Alangarai	29430					
419	DHARMAPURI	Kuppur	Chittankottai	13150					
420	DHARMAPURI	Kuppur	Annasagarathankottai	8420					
421	DHARMAPURI	Kuppur	Palamarathankottai	6730					
422	DHARMAPURI	Kuppur	C.Kuppur	18030					
423	DHARMAPURI	Kuppur	P.Kurumpatti	22070					
424	DHARMAPURI	Kuppur	Vellian Kottai	5570					
425	DHARMAPURI	Kuppur	Thutharayankottai	7700					
426	DHARMAPURI	Kuppur	Kuppur colony	4100					
427	DHARMAPURI	Ungaranahalli	Unguranahalli	15090					
428	DHARMAPURI	Ungaranahalli	Emakuttiyur	12210					
429	DHARMAPURI	Ungaranahalli	Erankattukottai	8920					
430	DHARMAPURI	Ungaranahalli	Erankattuchinnasamy Kottai	6730					
431	DHARMAPURI	Ungaranahalli	Ettimarathupatti	22130					
432	DHARMAPURI	Ungaranahalli	Akkumariamankottai	9670					
433	DHARMAPURI	Ungaranahalli	Malliyampatti	14430					
434	DHARMAPURI	Ungaranahalli	Namatherikottai	7830					
435	DHARMAPURI	Ungaranahalli	Uthanur	6730					
436	DHARMAPURI	Ungaranahalli	Jagalankotti	4570					
437	DHARMAPURI	Ungaranahalli	Solakuttayankottai	4600					
438	DHARMAPURI	Ungaranahalli	Keelkanikaran Kottai	13370					
439	DHARMAPURI	Ungaranahalli	Paruthinatham	14090					
440	DHARMAPURI	Ungaranahalli	Subramaniyan Kottai	4160					
441	DHARMAPURI	Ungaranahalli	Tha.Guliyapur	8700					
442	DHARMAPURI	Ungaranahalli	Pha.Guliyapur	8700					
443	DHARMAPURI	Ungaranahalli	Santhanur	8170					
444	DHARMAPURI	Ungaranahalli	Raman Kottai-N	4160					
445	DHARMAPURI	Ungaranahalli	Raman Nagar	4160					
446	DHARMAPURI	Noolahalli	Noolahalli	26010					
447	DHARMAPURI	Noolahalli	Gopalahalli	7860					
448	DHARMAPURI	Noolahalli	Vedikottai	14310					
449	DHARMAPURI	Noolahalli	Nallampalliyankottai	8920					
450	DHARMAPURI	Noolahalli	Palanivettukottai	8920					
451	DHARMAPURI	Noolahalli	Kollakottai	4570					
452	DHARMAPURI	Noolahalli	Chinnanoolahalli	22410					
453	DHARMAPURI	Noolahalli	Kathirvelkottai	10520					

454	DHARMAPURI	Noolahalli	M.Sowlur	23510					
455	DHARMAPURI	Noolahalli	Antherigoundankottai	3880					
456	DHARMAPURI	Noolahalli	Pothalakaran Kottai	3880					
457	DHARMAPURI	Noolahalli	Ulavankottai	4700					
458	DHARMAPURI	Noolahalli	Vatali Kottai	3910					
459	DHARMAPURI	Mukkalnaickenpatti	Mukkalnaickenpatti	27420					
460	DHARMAPURI	Mukkalnaickenpatti	Pursankottai	3790					
461	DHARMAPURI	Mukkalnaickenpatti	Thirupathikotai	4510					
462	DHARMAPURI	Mukkalnaickenpatti	Kollankottai	12430					
463	DHARMAPURI	Mukkalnaickenpatti	Rajathoppu	16810					
464	DHARMAPURI	Mukkalnaickenpatti	Kadathurankottai	6730					
465	DHARMAPURI	Mukkalnaickenpatti	Andiyankottai	4510					
466	DHARMAPURI	Mukkalnaickenpatti	Alivayankottai	28830					
467	DHARMAPURI	Mukkalnaickenpatti	Melkaniyankottai	13370					
468	DHARMAPURI	Mukkalnaickenpatti	Nagankottai	4510					
469	DHARMAPURI	Mukkalnaickenpatti	Koonaditheru	6730					
470	DHARMAPURI	Mukkalnaickenpatti	Sowlupatti	4510					
471	DHARMAPURI	Mukkalnaickenpatti	Kelavankottai	8920					
472	DHARMAPURI	Mukkalnaickenpatti	Kavalaikarankottai	8790					
473	DHARMAPURI	Mukkalnaickenpatti	Mouthalaiyan Kottai	3750					
474	DHARMAPURI	Mukkalnaickenpatti	Vadakathiyankottai	3750					
475	MATHUR	Soolakarai	Mettu Sola Karai	13342					
476	MATHUR	Soolakarai	Kalgundu	9544					
477	MATHUR	Soolakarai	Pudur	11459					
478	MATHUR	Soolakarai	Papara Patti	18999					
479	MATHUR	Soolakarai	Palla Soola Karai	11419					
480	MATHUR	Soolakarai	Onna Karai	22789					
481	MATHUR	Soolakarai	Soolakarai	22125					
482	MATHUR	Soolakarai	Kattuthimman kottai	3319					
483	MATHUR	Soolakarai	Mallapuram	4629					
484	MATHUR	Anandur	Anandur	27156					
485	MATHUR	Anandur	Anandur Colony	5281					
486	MATHUR	Anandur	Kariyampathi	3875					
487	MATHUR	Anandur	Indira Nagar (Group House)	7656					
488	MATHUR	Anandur	Chengam Patti	17344					
489	MATHUR	Anandur	Pudur	15188					
490	MATHUR	Anandur	Melpathi	11438					
491	MATHUR	Anandur	Ranganur	18344					
492	MATHUR	Kattupatti	Mottu Kottai (Anna Nagar)	3250					
493	MATHUR	Kattupatti	Appunagar	2500					
494	MATHUR	Kattupatti	Pudur	3906					
495	MATHUR	Kattupatti	Kattupatty colony	3875					
496	MATHUR	Vani Patti	Reddy Patti	22531					
497	MATHUR	Vani Patti	Reddipatty colony	17680					

498	MATHUR	Vani Patti	Gollapatti	22531					
499	MATHUR	Vani Patti	Seengampatti	12563					
500	MATHUR	Vani Patti	Karuppa Naiken Patti	15219					
501	MATHUR	Vani Patti	Saminathan Nagar	5781					
502	MATHUR	Vani Patti	Sunnampathi	4750					
503	MATHUR	Gerigepalli	Panathoppu	2656					
504	MATHUR	Gerigepalli	Govinda Naikan Vattam	9625					
505	MATHUR	Gerigepalli	Gulampatti	13188					
506	MATHUR	Gerigepalli	Bomakannur	4469					
507	MATHUR	Gerigepalli	Bemanur	9625					
508	MATHUR	Gerigepalli	Pillanur	9750					
509	MATHUR	Gerigepalli	Athiveerm Patti	7375					
510	MATHUR	Gerigepalli	Badavanur & Railway Gate	10250					
511	MATHUR	Gerigepalli	Boorgala Palli	9563					
512	MATHUR	Gerigepalli	Kanchanur Arunthiyar Colony	7031					
513	MATHUR	Gerigepalli	Nadar Kottai	5906					
514	MATHUR	Gerigepalli	Pudukadu	5781					
515	MATHUR	Gerigepalli	Koil nagar	3875					
516	MATHUR	Gerigepalli	Nagappan kottai	3875					
517	MATHUR	Gerigepalli	Appachi nadar thottam	3875					
518	MATHUR	Gerigepalli	Kolapatty Badavanur Gate thimmataya samy koil nagar	3875					
519	MATHUR	Salamarathu Patti	Gurukapatti	24469					
520	MATHUR	Salamarathu Patti	Chinna Gurugam Patti	5781					
521	MATHUR	Salamarathu Patti	Salamarathu Patti	7656					
522	MATHUR	Salamarathu Patti	Salamarathu Patti Colony	13344					
523	MATHUR	Salamarathu Patti	Salamarathu Patti Sanderi	3875					
524	MATHUR	Salamarathu Patti	Pudur	7906					
525	MATHUR	Salamarathu Patti	Sandur Vattam	3156					
526	MATHUR	Salamarathu Patti	Kalappanaikan Patti	7656					
527	MATHUR	Salamarathu Patti	Podar	13844					
528	MATHUR	Salamarathu Patti	Olapatti	13344					
529	MATHUR	Salamarathu Patti	Gangappan Vattam	3875					
530	MATHUR	Salamarathu Patti	Sandur	8594					
531	MATHUR	Salamarathu Patti	Indra Nagar	7594					
532	MATHUR	Salamarathu Patti	Chentrayan Malai	5781					
533	MATHUR	Salamarathu Patti	Ammavasivattam	4250					
534	MATHUR	Salamarathu Patti	Karavar vattam	5125					
535	MATHUR	Antherpatty	Sunnam Patti	7656					
536	MATHUR	Antherpatty	Sunnam Patti Koot Road	3875					
537	MATHUR	Antherpatty	Antheri Patti	17688					
538	MATHUR	Antherpatty	Thippam Patti	13656					
539	MATHUR	Antherpatty	Veera Goundanur	5781					
540	MATHUR	Antherpatty	Kothapuliyanur	2938					

541	MATHUR	Antherpatty	Karikal Jogi Patti	7750					
542	MATHUR	Antherpatty	Salai Jogi Patti	4656					
543	MATHUR	Antherpatty	Vadiyakaran Kottai	7656					
544	MATHUR	Antherpatty	Nadu Jogi Patti	6719					
545	MATHUR	Antherpatty	Periya Jogi Patti	9563					
546	MATHUR	Antherpatty	Periya Jogi Patti Gola Kottai	4813					
547	MATHUR	Antherpatty	Thimmarayan Kottai	2781					
548	MATHUR	Antherpatty	Kumaran vattam	2656					
549	MATHUR	Antherpatty	Kodamanda Patti Kottu Road	5781					
550	MATHUR	Antherpatty	Sunam Patti Golla Kottai	4813					
551	MATHUR	Antherpatty	Sri Ramulu nagar	5531					
552	MATHUR	Goundanur	Goundanur	19375					
553	MATHUR	Goundanur	Kodi Pathi	19625					
554	MATHUR	Goundanur	Kamalapuram Kottu Road	17125					
555	MATHUR	Goundanur	Sani Patti Mettu Kottai	8406					
556	MATHUR	Goundanur	Sundaram Kottai	12188					
557	MATHUR	Goundanur	Sowlukottai	4406					
558	MATHUR	Goundanur	Muniyappan Koil Vattam	4438					
559	MATHUR	Goundanur	Goundanur AD Colony	5313					
560	MATHUR	Goundanur	Pallathu kottai	3875					
561	MATHUR	Goundanur	Athipallam Colony	9688					
562	MATHUR	Goundanur	Sanipatty Colony	8938					
563	MATHUR	Kodamanda Patti	Murukkam Patti	11438					
564	MATHUR	Kodamanda Patti	Murukkampatti Koravan Kottai	4281					
565	MATHUR	Kodamanda Patti	Bomman Kottai	5781					
566	MATHUR	Kodamanda Patti	Thathanagar	5781					
567	MATHUR	Kodamanda Patti	Kotur	12156					
568	MATHUR	Kodamanda Patti	Kodamanda Patti	29563					
569	MATHUR	Kodamanda Patti	Keelsandam Patti	9906					
570	MATHUR	Kodamanda Patti	Rajamanicka vattam	3750					
571	MATHUR	Kodamanda Patti	Vandiganur	6125					
572	MATHUR	Kodamanda Patti	Renugundala Halli	3875					
573	MATHUR	Kodamanda Patti	Gundlanur	3875					
574	MATHUR	Kodamanda Patti	Anna Nagar (Group House)	5781					
575	MATHUR	Kodamanda Patti	Vellaiyan Vattam	3875					
576	MATHUR	Kodamanda Patti	Kodamandapatty theradi veethi	4000					
577	MATHUR	Kodamanda Patti	Kodamandapatty Annanagar	4281					
578	MATHUR	Odda Patti	Matham Pathi	16313					
579	MATHUR	Odda Patti	Kolkaran vattam	6250					
580	MATHUR	Odda Patti	Puliyam Patti Koot Road	7656					
581	MATHUR	Odda Patti	Puliyand Patti	17125					

582	MATHUR	Odda Patti	Puliyanda Patti Colony	15219					
583	MATHUR	Odda Patti	Kattu Mookam Patti Colony	3875					
584	MATHUR	Odda Patti	Parasurama Goundanur	10688					
585	MATHUR	Odda Patti	Muniyappan Koil Vattam	4656					
586	MATHUR	Odda Patti	Pudur Mariamman Koil Vattam	3875					
587	MATHUR	Odda Patti	Palaya oddapatty	4438					
588	MATHUR	Vali Patti	Valipatti	25313					
589	MATHUR	Vali Patti	Kannuganur	13906					
590	MATHUR	Vali Patti	Paraiyur	5781					
591	MATHUR	Vali Patti	Karrupari Palathur	17125					
592	MATHUR	Vali Patti	Karupan Puliyann Kottai	5781					
593	MATHUR	Vali Patti	Perumal Goundanur	17000					
594	MATHUR	Vali Patti	Goundapanur	10719					
595	MATHUR	Vali Patti	Goundappanur Arunthiyar Colony	9688					
596	MATHUR	Vali Patti	Thanjavuram Kottai	3875					
597	MATHUR	Vali Patti	Velavelli	6594					
598	MATHUR	Vali Patti	Velavelli Mettukottai	4844					
599	MATHUR	Vali Patti	Singirigan Kottai	7656					
600	MATHUR	Vali Patti	Karthakali Kottai	3875					
601	MATHUR	Vali Patti	Chinnapaiyan Kottai	6500					
602	MATHUR	Vali Patti	Kannuganur Mel Kottai	7656					
603	MATHUR	Vali Patti	Salai Kokira Patti	5781					
604	MATHUR	Vali Patti	Nathagayam	7656					
605	MATHUR	Vali Patti	Perumanur Murugan Koil	9625					
606	MATHUR	Vali Patti	Kuravan Kottai	7656					
607	MATHUR	Vali Patti	Athumedu Sungari Vattam	3875					
608	MATHUR	Vali Patti	Saravanan Vattam	5781					
609	MATHUR	Vali Patti	Appoji Vattam	5781					
610	MATHUR	Vali Patti	Karugan Vattam	6688					
611	MATHUR	Vali Patti	Panamthoppu	7656					
612	MATHUR	Vali Patti	Subramani Vattam	1875					
613	MATHUR	Vali Patti	Thachan Vattam	3875					
614	MATHUR	Vali Patti	Dhanapal vattam	4281					
615	MATHUR	Vali Patti	Kothukaran vattam	3875					
616	MATHUR	Kalarpathi	Kalarpathi	55656					
617	MATHUR	Kalarpathi	Kothakottai	15313					
618	MATHUR	Kalarpathi	Angampatty	11406					
619	MATHUR	Kalarpathi	Megalam Patti	11844					
620	MATHUR	Kalarpathi	Mottu Kottai	9188					
621	MATHUR	Kalarpathi	Kottanur	9563					
622	MATHUR	Kalarpathi	Maliyand Halli	14844					
623	MATHUR	Kalarpathi	Mottur	15219					
624	MATHUR	Kalarpathi	Poosarai Kottai	10688					

625	MATHUR	Kalarpathi	Sevathan Kottai	9938					
626	MATHUR	Kalarpathi	Pootham Palli	6125					
627	MATHUR	Kalarpathi	Yesunathar Nagar	11438					
628	MATHUR	Kalarpathi	Samathuvapuram	18813					
629	MATHUR	Kalarpathi	Kalainar Nagar	3875					
630	MATHUR	Kannandahalli	Kannada Halli	57125					
631	MATHUR	Kannandahalli	Mari Goundan Kottai	7656					
632	MATHUR	Kannandahalli	Gurugapatti	13344					
633	MATHUR	Kannandahalli	Athiganur	58375					
634	MATHUR	Kannandahalli	Nehru Nagar	7656					
635	MATHUR	Kannandahalli	Koochur	18969					
636	MATHUR	Kannandahalli	Tholanur	11438					
637	MATHUR	Kannandahalli	Dasari Goundan Kottai	3906					
638	MATHUR	Kannandahalli	Chennaian vattam	3750					
639	MATHUR	Kannandahalli	Pethanaickanur	8375					
640	MATHUR	Kannandahalli	Perumal Kuppam	20875					
641	MATHUR	Kannandahalli	Kamaraj Nagar	6156					
642	MATHUR	Kannandahalli	Gollai Kottai	3875					
643	MATHUR	Kannandahalli	Puli Kottai	9563					
644	MATHUR	Kannandahalli	Parai Kottai	4625					
645	MATHUR	Kannandahalli	Andikanur	4625					
646	MATHUR	Mathur	Mathur	77375					
647	MATHUR	Mathur	Mathur Pathi	18969					
648	MATHUR	Mathur	Eachenkadu	9531					
649	MATHUR	Mathur	Eachenkadu colony	6250					
650	MATHUR	Mathur	Buddan Mookan Kottai	14094					
651	MATHUR	Mathur	Chiinthandi Kottai	12375					
652	MATHUR	Mathur	Mookka Goundanur	15219					
653	MATHUR	Mathur	Chockkan Vattam	5406					
654	MATHUR	Mathur	Mathur keel veethi	6906					
655	MATHUR	Mathur	Mathur AD Colony	6906					
656	MATHUR	Mathur	Indian Bank Colony	3875					
657	MATHUR	Mathur	Anna Nagar	8313					
658	MATHUR	Mathur	MGR Nagar	4344					
659	MATHUR	Nagampatti	Nagam Patti	15813					
660	MATHUR	Nagampatti	N.Motor	15813					
661	MATHUR	Nagampatti	Madhara Halli	32094					
662	MATHUR	Nagampatti	Errapa Naikanur	3938					
663	MATHUR	Nagampatti	Oblikattur	11438					
664	MATHUR	Nagampatti	Mgr.Nagar	4656					
665	MATHUR	Nagampatti	Pallathur Mottu Kottai	8094					
666	MATHUR	Nagampatti	Pallathur Mel Kottai (Anna Nagar)	7469					
667	MATHUR	Nagampatti	Mella Kottai	4656					
668	MATHUR	Nagampatti	Pallathur Kurumbur Kottai	4625					

669	MATHUR	Nagampatti	Mellur Mettu Kottai	4656					
670	MATHUR	Nagampatti	Pichi Goundana Halli	9625					
671	MATHUR	Nagampatti	Gundan kottai	6125					
672	MATHUR	Nagampatti	Oblikattur Amman nagar	4000					
673	MATHUR	Nagampatti	Nagampatty kottu road	3875					
674	MATHUR	Nagampatti	Madarahalli AD Colony	5781					
675	MATHUR	Nagampatti	Venkaramanvattam	2656					
676	MATHUR	Sivampatti	Sivampatti	21781					
677	MATHUR	Sivampatti	Nadu Patti Colony	6719					
678	MATHUR	Sivampatti	Manthipatti	9094					
679	MATHUR	Sivampatti	Manthi Patti Colony	8750					
680	MATHUR	Sivampatti	Kallethu Patti	6125					
681	MATHUR	Sivampatti	Mavuthaliyan Kottai	7031					
682	MATHUR	Sivampatti	Ekileriyar Colony	5781					
683	MATHUR	Sivampatti	Krishnapuram Koot Road	7906					
684	MATHUR	Sivampatti	Nadupatti	10031					
685	MATHUR	Sivampatti	Erikudi Sivampatti	3875					
686	MATHUR	Sivampatti	Thuman Kottai	3875					
687	MATHUR	Sivampatti	Dhrmanthoppu (Group House)	7031					
688	MATHUR	Sivampatti	MGR NAGAR	4406					
689	MATHUR	Sivampatti	Sithavathiyar kottai	3313					
690	MATHUR	Sivampatti	Sivampatty AD Colony	3469					
691	UTHAGARAI	Genga Piram Patty	Kuttappanaickanur	5790					
692	UTHAGARAI	Genga Piram Patty	Mannandiyur	9580					
693	UTHAGARAI	Genga Piram Patty	Subaraya Nagar	7110					
694	UTHAGARAI	Genga Piram Patty	Jothi Nagar	11460					
695	UTHAGARAI	Genga Piram Patty	Nachagoundanur	9580					
696	UTHAGARAI	Genga Piram Patty	Dharmarajanagar	7670					
697	UTHAGARAI	Genga Piram Patty	Pattaiyur	8420					
698	UTHAGARAI	Genga Piram Patty	Appinaickenpatty	19950					
699	UTHAGARAI	Genga Piram Patty	Sennanur	7110					
700	UTHAGARAI	Genga Piram Patty	Pandavar Nagar	7670					
701	UTHAGARAI	Genga Piram Patty	Gangapirampatty	14650					
702	UTHAGARAI	Genga Piram Patty	Gengapirampatty Colony	11270					
703	UTHAGARAI	Genga Piram Patty	Alamarathupallam	2190					
704	UTHAGARAI	Genga Piram Patty	Nethaji Nagar	3840					
705	UTHAGARAI	Genga Piram Patty	Appinaickenpatty AD Colony	4170					
706	UTHAGARAI	Kondam Patty	Kondam Patty	26400					
707	UTHAGARAI	Kondam Patty	Kollanur	8570					
708	UTHAGARAI	Kondam Patty	Kamaraj Nagar	15250					
709	UTHAGARAI	Kondam Patty	Ellappa Oddapatty	8610					
710	UTHAGARAI	Kondam Patty	Kungili Patty	4290					
711	UTHAGARAI	Kondam Patty	Pudur	8610					

712	UTHAGARAI	Kondam Patty	Poddarasan Patty	4690					
713	UTHAGARAI	Kondam Patty	J.J. Nagar A.R.Colony	1820					
714	UTHAGARAI	Kondam Patty	Jagajeevanram Nagar	2040					
715	UTHAGARAI	Kondam Patty	Kondampatty Colony	3688					
716	UTHAGARAI	Maram Patty	Nambiram Patty	24700					
717	UTHAGARAI	Maram Patty	Maran Kottai	7630					
718	UTHAGARAI	Maram Patty	Vasantha Puram	5750					
719	UTHAGARAI	Maram Patty	Ottaneri M.G.R Nagar	5750					
720	UTHAGARAI	Maram Patty	Mallan Patty	4670					
721	UTHAGARAI	Maram Patty	Vaithiakaran Kottai	4070					
722	UTHAGARAI	Maram Patty	Muthumariamman Nagar	4290					
723	UTHAGARAI	Reddi Patty	Reddi Patty	26906					
724	UTHAGARAI	Reddi Patty	Periyar Nagar	22656					
725	UTHAGARAI	Reddi Patty	Anna Nagar Colony	4469					
726	UTHAGARAI	Reddi Patty	Veera Boyan Kottai	4281					
727	UTHAGARAI	Reddi Patty	Pudur	15000					
728	UTHAGARAI	Reddi Patty	Sennappanaickanur	21125					
729	UTHAGARAI	Reddi Patty	Parasu Raman Kottai	3875					
730	UTHAGARAI	Reddi Patty	Periyar Nagar North	9906					
731	UTHAGARAI	Reddi Patty	Kalaingar Nagar	4156					
732	UTHAGARAI	Uppara Patty	Peyanur	15620					
733	UTHAGARAI	Uppara Patty	Salaganeri Mottur	3880					
734	UTHAGARAI	Uppara Patty	Uppara Patty	19710					
735	UTHAGARAI	Uppara Patty	Ganesha Puram	4290					
736	UTHAGARAI	Uppara Patty	Oomaiyanur	12020					
737	UTHAGARAI	Uppara Patty	Mangamma Salai	4670					
738	UTHAGARAI	Uppara Patty	Sengan Kottavur	9960					
739	UTHAGARAI	Uppara Patty	Chinna Kara Pattu	7830					
740	UTHAGARAI	Uppara Patty	Chinna Kunnathur Ad Colony	7110					
741	UTHAGARAI	Uppara Patty	Santha Kottaiur	8420					
742	UTHAGARAI	Uppara Patty	Puliyar Thoppu	5790					
743	UTHAGARAI	Uppara Patty	Jollan Kottai	6920					
744	UTHAGARAI	Uppara Patty	Goundar Nagar	3880					
745	UTHAGARAI	Uppara Patty	Boyar Kottai	3970					
746	UTHAGARAI	Venkatathampatty	Venkatatham Patty	32031					
747	UTHAGARAI	Venkatathampatty	Sathiya Nagar	25000					
748	UTHAGARAI	Venkatathampatty	Venkatatham Patty Pudur	11625					
749	UTHAGARAI	Venkatathampatty	Gandhi Nagar	14281					
750	UTHAGARAI	Venkatathampatty	Pappanur	2281					
751	UTHAGARAI	Venkatathampatty	Pappanur Vattam	1875					
752	UTHAGARAI	Venkatathampatty	Gandhi Nagar Extension	3875					
753	UTHAGARAI	Venkatathampatty	Kollapatty	6875					
754	UTHAGARAI	Venkatathampatty	Kollanaickanur	9563					
755	UTHAGARAI	Venkatathampatty	Parasuraman Kottai	3875					

756	UTHAGARAI	Venkatathampatty	Thirinji Patty	7313					
757	UTHAGARAI	Venkatathampatty	Thirinji Patty Koot Road	3875					
758	UTHAGARAI	Venkatathampatty	Selakaram Patty Veeriyam Patty Koot Road	15063					
759	UTHAGARAI	Venkatathampatty	Solakattu Pudur	6906					
760	UTHAGARAI	Venkatathampatty	Muruga Goundanur	3875					
761	UTHAGARAI	Venkatathampatty	Narasimman kottai	3531					
762	UTHAGARAI	Venkatathampatty	Thurinjipatty pudur	4156					
763	UTHAGARAI	Mittapalli	Mitta Palli	47563					
764	UTHAGARAI	Mittapalli	Sathya Nagar	4070					
765	UTHAGARAI	Mittapalli	Puratachi Kottai	4290					
766	UTHAGARAI	Mittapalli	Parasuram Goundar Kottai	4290					
767	UTHAGARAI	Mittapalli	Mitta Palli Colony	37270					
768	UTHAGARAI	Mittapalli	Ambedkar nagar	4600					
769	UTHAGARAI	Mittapalli	Kamarajar Nagar	9580					
770	UTHAGARAI	Mittapalli	Indra Nagar	5790					
771	UTHAGARAI	Mittapalli	Chinnathala Padi	21710					
772	UTHAGARAI	Mittapalli	Kuravar Colony	5790					
773	UTHAGARAI	Mittapalli	B.Pudur	5980					
774	UTHAGARAI	Mittapalli	Kalluran Kottai	3020					
775	UTHAGARAI	Moonram Patty	Kethunaicken Atty	12810					
776	UTHAGARAI	Moonram Patty	Kethunaicken Patty Colony	5230					
777	UTHAGARAI	Moonram Patty	Kethunaicken Patty Auto Station	7670					
778	UTHAGARAI	Moonram Patty	Kotturam Patty	28230					
779	UTHAGARAI	Moonram Patty	Thodan Kottai	3880					
780	UTHAGARAI	Moonram Patty	Kottaavoor	2530					
781	UTHAGARAI	Moonram Patty	Karuppikottai	2813					
782	UTHAGARAI	Moonram Patty	Ubaga Valasai	8420					
783	UTHAGARAI	Moonram Patty	Moonram Patty	9580					
784	UTHAGARAI	Moonram Patty	Vanniar Nagar	5790					
785	UTHAGARAI	Moonram Patty	Thikkan Kottai	6920					
786	UTHAGARAI	Moonram Patty	Kakkanur	3880					
787	UTHAGARAI	Moonram Patty	Govilur	3880					
788	UTHAGARAI	Moonram Patty	Chennan Kottai	3880					
789	UTHAGARAI	Moonram Patty	Bharathi Puram	6960					
790	UTHAGARAI	Nadupatty	Kuppanatham	26890					
791	UTHAGARAI	Nadupatty	Venkatta Puram	2360					
792	UTHAGARAI	Nadupatty	Kodal Valasai	23860					
793	UTHAGARAI	Nadupatty	Etti Patty	34350					
794	UTHAGARAI	Nadupatty	Ondhiyam	5790					
795	UTHAGARAI	Nadupatty	Gandhi Nagar	2040					
796	UTHAGARAI	Nadupatty	Pulliyanthoppu	4670					
797	UTHAGARAI	Nadupatty	Perumal Goundanoor	4290					
798	UTHAGARAI	Nadupatty	Anna Nagar	4070					

799	UTHAGARAI	Nadupatty	Kundrakudi	3130					
800	UTHAGARAI	Nadupatty	Pappan kodagal MGR Nagar	3438					
801	UTHAGARAI	Nadupatty	Ondhiyam pudur	4063					
802	UTHAGARAI	Maganoor Patty	Maganoor Patty	48420					
803	UTHAGARAI	Maganoor Patty	Thayammal Pudur	14500					
804	UTHAGARAI	Maganoor Patty	Thotiakaran Kottai	9580					
805	UTHAGARAI	Maganoor Patty	Nari Ganur	14870					
806	UTHAGARAI	Maganoor Patty	Maganoor Patty Colony	18660					
807	UTHAGARAI	Maganoor Patty	Gurupara Valasai	9580					
808	UTHAGARAI	Maganoor Patty	Maganoor Patty Thoppu	9580					
809	UTHAGARAI	Maganoor Patty	Nethaji Nagar	3688					
810	UTHAGARAI	Maganoor Patty	Musili Kottai	19000					
811	UTHAGARAI	Maganoor Patty	Thavoothi Kottai	13370					
812	UTHAGARAI	Maganoor Patty	Paban Kottai	11460					
813	UTHAGARAI	Maganoor Patty	Ramagoundanur	6920					
814	UTHAGARAI	Maganoor Patty	Rajivegandhi nagar	5094					
815	UTHAGARAI	Maganoor Patty	Aramba sundaranagar	3688					
816	UTHAGARAI	Keel Kuppam	Murungi Patty	3840					
817	UTHAGARAI	Keel Kuppam	Poosam Patty	7670					
818	UTHAGARAI	Keel Kuppam	Chinna Boom Patty	15020					
819	UTHAGARAI	Keel Kuppam	Keel Kuppam	23700					
820	UTHAGARAI	Keel Kuppam	Thenur	3880					
821	UTHAGARAI	Keel Kuppam	Srinagar	3880					
822	UTHAGARAI	Keel Kuppam	Keesan Kottai	3880					
823	UTHAGARAI	Keel Kuppam	Panamarathu Patty Ar Colony	19000					
824	UTHAGARAI	Keel Kuppam	Panamarathu Patty	9810					
825	UTHAGARAI	Keel Kuppam	Erikari perumal koil	1938					
826	UTHAGARAI	Nochi Patty	Onam Palayam	24700					
827	UTHAGARAI	Nochi Patty	Chinnakanagam Patty	9580					
828	UTHAGARAI	Nochi Patty	M .G . R . Nagar	3880					
829	UTHAGARAI	Nochi Patty	Valluvar Puram	6130					
830	UTHAGARAI	Nochi Patty	Gandhi Nagar	3880					
831	UTHAGARAI	Nochi Patty	Nochipatty	19570					
832	UTHAGARAI	Nochi Patty	Periya Boom Patty	20730					
833	UTHAGARAI	Nochi Patty	Jai Nagar	3880					
834	UTHAGARAI	Nochi Patty	Nochipatty - colony	11813					
835	UTHAGARAI	Kallavi	Palaya Kottai Mettu Colony	19410					
836	UTHAGARAI	Kallavi	Jadayam Palayam	5790					
837	UTHAGARAI	Kallavi	Gandhi Nagar	4670					
838	UTHAGARAI	Kallavi	Dasam Patty	23990					
839	UTHAGARAI	Kallavi	Panamarathu Patty	13080					
840	UTHAGARAI	Kallavi	Kallavi	68570					
841	UTHAGARAI	Kallavi	Anna Nagar	3880					

842	UTHAGARAI	Kallavi	Kallaavi Cheri	34120					
843	UTHAGARAI	Kallavi	Javvanur	6130					
844	UTHAGARAI	Kallavi	Perumal Naicken Patty	26770					
845	UTHAGARAI	Kallavi	Pappi Chetti Patty	8420					
846	UTHAGARAI	Kallavi	Vepiappakoil Poosaari Kottai	9580					
847	UTHAGARAI	Kallavi	Kaluthi Patty	1440					
848	UTHAGARAI	Kallavi	Rajiv Nagar	6920					
849	UTHAGARAI	Kallavi	Dasanankuttai	5080					
850	UTHAGARAI	Kallavi	Thadikarankottai	9219					
851	UTHAGARAI	Mettu thangal	Mettu Thangal	13880					
852	UTHAGARAI	Mettu thangal	Ambethkar Nagar	17790					
853	UTHAGARAI	Mettu thangal	M.Vella Patty	14200					
854	UTHAGARAI	Mettu thangal	Kolinaicken Patty	17910					
855	UTHAGARAI	Mettu thangal	Kamaraj Nagar	2530					
856	UTHAGARAI	Mettu thangal	M.Vellalapatti Ad Colony N	2980					
857	UTHAGARAI	Mettu thangal	Kongu Nagar N	3840					
858	UTHAGARAI	Mettu thangal	Mettuthangal Ad Colony N	2790					
859	UTHAGARAI	Mettu thangal	Indira Nagar	3031					
860	UTHAGARAI	Mettu thangal	M. Vellalapatty AR Colony	2969					
861	UTHAGARAI	Bada Palli	Bada Palli	28830					
862	UTHAGARAI	Bada Palli	Pattaganur	15620					
863	UTHAGARAI	Bada Palli	Pattaganur Colony	23080					
864	UTHAGARAI	Bada Palli	Saratur	10710					
865	UTHAGARAI	Bada Palli	Perumal Kuppam	14500					
866	UTHAGARAI	Bada Palli	Pudu Kadu	21700					
867	UTHAGARAI	Bada Palli	Veerappan Kottai	9580					
868	UTHAGARAI	Bada Palli	Rajboyankottai	4070					
B	Intermediate Reach Beneficiaries								
1	Municipality	Dharmapuri		6763636					
1	PENNAGARAM	Kookkuttamarathuh alli	Mudugampatti	30180					
2	PENNAGARAM	Kookkuttamarathuh alli	Indira Nagar	5040					
3	PENNAGARAM	Kookkuttamarathuh alli	Rajavur H	17190					
4	PENNAGARAM	Kookkuttamarathuh alli	Dasaragundi	5850					
5	PENNAGARAM	Kookkuttamarathuh alli	Valukkumparai	4600					
6	PENNAGARAM	Kookkuttamarathuh alli	Naickanur	14410					
7	PENNAGARAM	Kookkuttamarathuh alli	Naickanur Senkuttai	3790					
8	PENNAGARAM	Mangarai	Mangarai New Colony	2000					

9	PENNAGARAM	Mangarai	Pudu Eri	3790					
10	PENNAGARAM	Mangarai	Sanjeevapuram	3790					
11	PENNAGARAM	Mangarai	Vannathipatty	36560					
12	PENNAGARAM	Mangarai	Pullapatty	16720					
13	PENNAGARAM	Mangarai	Sriranganagar	6760					
14	PENNAGARAM	Mangarai	Pallakottai	3790					
15	PENNAGARAM	Mangarai	Kamalanthoppu	3790					
16	PENNAGARAM	Mangarai	Nallampatti Vannar Street	3790					
17	PENNAGARAM	Mangarai	Nallampatti	55910					
18	PENNAGARAM	Sunjalnatham	Eriyur	96010					
19	PENNAGARAM	Sunjalnatham	Korkampatti	19880					
20	PENNAGARAM	Sunjalnatham	M.Thanda-H	17530					
21	PENNAGARAM	Sunjalnatham	Pattagan Kottai	15280					
22	PENNAGARAM	Sunjalnatham	Echapadi	20660					
23	PENNAGARAM	Sunjalnatham	Bellur	57880					
24	PENNAGARAM	Sunjalnatham	Kongarapatti	7110					
25	PENNAGARAM	Sunjalnatham	Murugankottai	8330					
26	PENNAGARAM	Sunjalnatham	Kamaraj Pettai Mellur	11050					
27	PENNAGARAM	Sunjalnatham	Kamaraj Pettai Keelur	18660					
28	PENNAGARAM	Sunjalnatham	Eriyur Anna Nagar (Eriyuran kottai)	3790					
29	PENNAGARAM	Sunjalnatham	Gandhi Nagar	3790					
30	PENNAGARAM	Thonnagudlahalli	Thonngudlanahalli	23980					
31	PENNAGARAM	Thonnagudlahalli	Athimarathur	24570					
32	PENNAGARAM	Thonnagudlahalli	Athimarathur AR Colony	3410					
33	PENNAGARAM	Thonnagudlahalli	Puliyamarathur H	6290					
34	PENNAGARAM	Thonnagudlahalli	Sidumanahalli	34030					
35	PENNAGARAM	Thonnagudlahalli	Sampalli	16560					
36	PENNAGARAM	Thonnagudlahalli	Ponnappankottai	4630					
37	PENNAGARAM	Thonnagudlahalli	Palayur	14490					
38	PENNAGARAM	Thonnagudlahalli	Palayur-H	7510					
39	PENNAGARAM	Thonnagudlahalli	Metturan Kottai	8330					
40	PENNAGARAM	Thonnagudlahalli	Maniakarankottai	8300					
41	PENNAGARAM	Thonnagudlahalli	Seelanaickanur	34220					
42	PENNAGARAM	Thonnagudlahalli	Urnatham	10330					
43	PENNAGARAM	Thonnagudlahalli	Samarathukottai	3790					
44	PENNAGARAM	Thonnagudlahalli	Pudukadu	8330					
45	PENNAGARAM	Thonnagudlahalli	Puduvelamangalam	4010					
46	PENNAGARAM	Thonnagudlahalli	Gandhi Nagar	2000					
47	PENNAGARAM	Thonnagudlahalli	Siduvampatty Colony	2000					
48	PENNAGARAM	Thonnagudlahalli	Pattakarankottai	3790					
49	PENNAGARAM	Thonnagudlahalli	Athimarathur Earikadu	7670					
50	PENNAGARAM	Bathrahalli	Poochur	15180					
51	PENNAGARAM	Bathrahalli	Nasinangundu Kadu	4260					
52	PENNAGARAM	Bathrahalli	Puliyarpallathur	8330					

53	PENNAGARAM	Bathrahalli	Aralkundi	22880					
54	PENNAGARAM	Bathrahalli	Kulikadu	3790					
55	PENNAGARAM	Bathrahalli	Vathalpatti Gudi Theru	10390					
56	PENNAGARAM	Bathrahalli	Vathal Patti H	20130					
57	PENNAGARAM	Bathrahalli	Vathal Patti New colony	3790					
58	PENNAGARAM	Bathrahalli	Uthupallathur	12960					
59	PENNAGARAM	Bathrahalli	Pudu Kadu	4260					
60	PENNAGARAM	Bathrahalli	Chokkalingam Kottai	19160					
61	PENNAGARAM	Bathrahalli	Kattu Mottur	15300					
62	PENNAGARAM	Ajjanahalli	Ajjanahalli Ar Colony	4540					
63	PENNAGARAM	Ajjanahalli	Orapachur	18630					
64	PENNAGARAM	Ajjanahalli	Sigaralahalli	50090					
65	PENNAGARAM	Ajjanahalli	Kaliyappan Kottai	4260					
66	PENNAGARAM	Ajjanahalli	Kuppan Kottai	5040					
67	PENNAGARAM	Ajjanahalli	Manalparuthi Kadu	6260					
68	PENNAGARAM	Ajjanahalli	Mamarathu Kadu	4260					
69	PENNAGARAM	Ajjanahalli	Periyavathalapuram	36090					
70	PENNAGARAM	Ajjanahalli	Chinnavathalapuram	35030					
71	PENNAGARAM	Ajjanahalli	Kottathandu Kadu	6260					
72	PENNAGARAM	Ajjanahalli	Sadaipettai	12430					
73	PENNAGARAM	Ajjanahalli	Mongilmadu	52280					
74	PENNAGARAM	Ajjanahalli	Sigaralahalli H	13770					
75	PENNAGARAM	Nagamarai	Nagamarai	10740					
76	PENNAGARAM	Nagamarai	Neruppur	99140					
77	PENNAGARAM	Nagamarai	Neruppur AD & AR Colony	3790					
78	PENNAGARAM	Nagamarai	Kattur	8330					
79	PENNAGARAM	Nagamarai	Ganthi Nagar	8330					
80	PENNAGARAM	Nagamarai	Panavadiyan Kadu H	10770					
81	PENNAGARAM	Nagamarai	Pannavadiyan Kadu	18310					
82	PENNAGARAM	Nagamarai	Dasan Kadu	6260					
83	PENNAGARAM	Nagamarai	Odayan Kadu	3790					
84	PENNAGARAM	Nagamarai	Vella Karattu Medu	6260					
85	PENNAGARAM	Nagamarai	Maniyakaran Kottai	9740					
86	PENNAGARAM	Nagamarai	Nagamarai East H	6260					
87	PENNAGARAM	Nagamarai	Chinnakarattu Pudur	10390					
88	PENNAGARAM	Nagamarai	Nagamarai West H	20970					
89	PENNAGARAM	Nagamarai	Karunkali Medu	18880					
90	PENNAGARAM	Nagamarai	Siru Thangalmedu	5040					
91	PENNAGARAM	Nagamarai	Singilimedu	12430					
92	PENNAGARAM	Nagamarai	Gurukalayanur	18590					
93	PENNAGARAM	Nagamarai	Kondayanur	16560					
94	PENNAGARAM	Nagamarai	Iyampudr	3790					
95	PENNAGARAM	Nagamarai	Athumettur	3790					
96	PENNAGARAM	Ramagondahalli	Ramagondahalli	27020					
97	PENNAGARAM	Ramagondahalli	Kurumankarattur	6260					

98	PENNAGARAM	Ramagondahalli	Kanikadu	5040					
99	PENNAGARAM	Ramagondahalli	Pudumankurichi	12520					
100	PENNAGARAM	Ramagondahalli	Nallur	6260					
101	PENNAGARAM	Ramagondahalli	Marimuthukottai	3790					
102	PENNAGARAM	Ramagondahalli	Mottukottai	4260					
103	PENNAGARAM	Ramagondahalli	Alagagoudanoor	7510					
104	PENNAGARAM	Ramagondahalli	Sandai Medu	10770					
105	PENNAGARAM	Ramagondahalli	Malaiyanur	24260					
106	PENNAGARAM	Ramagondahalli	Mailaiyanur Kottai	4630					
107	PENNAGARAM	Ramagondahalli	Santhanakodikal	8330					
108	PENNAGARAM	Ramagondahalli	Pudu Nagamarai	10390					
109	PENNAGARAM	Ramagondahalli	Samiyarkottai	3790					
110	PENNAGARAM	Ramagondahalli	Sloapadi	19680					
111	PENNAGARAM	Ramagondahalli	Pudusampalli H	16120					
112	PENNAGARAM	Ramagondahalli	Bellur Kattu Valau	5540					
113	PENNAGARAM	Manjarahalli	Manjarahalli @Mankuruchi .H	15400					
114	PENNAGARAM	Manjarahalli	Sellamudi	37910					
115	PENNAGARAM	Manjarahalli	Sellamudi West (Mel st)	3790					
116	PENNAGARAM	Manjarahalli	Madhyan(Velayuthan)Kottai	4260					
117	PENNAGARAM	Manjarahalli	Rajive Colony	3790					
118	PENNAGARAM	Manjarahalli	Sellamudi Colony	12400					
119	PENNAGARAM	Manjarahalli	Chithirapatti	26580					
120	PENNAGARAM	Manjarahalli	Erikol Patti	45670					
121	PENNAGARAM	Manjarahalli	Erikolpatti Colony	3790					
122	PENNAGARAM	Manjarahalli	Semmedu Gounder kottai	3790					
123	PENNAGARAM	Manjarahalli	Erikolpatti Bathrahalli	3040					
124	PENNAGARAM	Manjarahalli	Karadigundupudur	3790					
125	PENNAGARAM	Manjarahalli	Poovankadu	8330					
126	PENNAGARAM	Manjarahalli	Erikadu	4630					
127	PENNAGARAM	Manjarahalli	Vadivel Goundanoor	11680					
128	PENNAGARAM	Manjarahalli	Goundanoor	11680					
129	PENNAGARAM	Manjarahalli	NARASI MEDU	22980					
130	PENNAGARAM	Manjarahalli	Karungallur	6260					
131	PENNAGARAM	Manjarahalli	Semmedu	11680					
132	PENNAGARAM	Manjarahalli	D.Solapadi	7580					
133	PENNAGARAM	Perumbalai	Perumbalai	43640					
134	PENNAGARAM	Perumbalai	Semmanur	16560					
135	PENNAGARAM	Perumbalai	Pachyamman Kombai	5070					
136	PENNAGARAM	Perumbalai	Pallipatti	20660					
137	PENNAGARAM	Perumbalai	Ettikottai	4600					
138	PENNAGARAM	Perumbalai	Kombadiyur	33930					
139	PENNAGARAM	Perumbalai	Ayamarathupatti	4630					
140	PENNAGARAM	Perumbalai	Samathal	31490					

141	PENNAGARAM	Perumbalai	Samathal H	2570					
142	PENNAGARAM	Perumbalai	Thepallikadu	5040					
143	PENNAGARAM	Perumbalai	Sanar Patti Kattu Valau	5040					
144	PENNAGARAM	Perumbalai	Moolachetti Kottai	4260					
145	PENNAGARAM	Perumbalai	Bethanur	14460					
146	PENNAGARAM	Perumbalai	Boothanacken Patti	14490					
147	PENNAGARAM	Perumbalai	Soligoundanur	16470					
148	PENNAGARAM	Perumbalai	Sanarpatti	15310					
149	PENNAGARAM	Perumbalai	Alamarathur Ad Colony	6540					
150	PENNAGARAM	Perumbalai	Alamarathur	15530					
151	PENNAGARAM	Perumbalai	Alamarathuerikadu Kombai	3790					
152	PENNAGARAM	Gendayanahalli	Bodampatti	20190					
153	PENNAGARAM	Gendayanahalli	Bodampatty colony (Indhranagar)	3790					
154	PENNAGARAM	Gendayanahalli	Kavakadu	12430					
155	PENNAGARAM	Gendayanahalli	Kavakadu Colony	12680					
156	PENNAGARAM	Gendayanahalli	Chinnapalayur	5450					
157	PENNAGARAM	Gendayanahalli	Palaiyur	21280					
158	PENNAGARAM	Gendayanahalli	Thoppaiyar	4260					
159	PENNAGARAM	Gendayanahalli	Athukadu	3410					
160	PENNAGARAM	Gendayanahalli	Vellaman Kadu	23010					
161	PENNAGARAM	Gendayanahalli	Perumal Kovil Kattu valau	3790					
162	PENNAGARAM	Gendayanahalli	Marukkampatti	12430					
163	PENNAGARAM	Gendayanahalli	Bangarukuli Kadu	4630					
164	PENNAGARAM	Gendayanahalli	Pudur	16310					
165	PENNAGARAM	Gendayanahalli	Mahalingam kottai	3760					
166	PENNAGARAM	Gendayanahalli	Athimarathur	13710					
167	PENNAGARAM	Gendayanahalli	Semmalaikadu	3660					
168	NALLAMPALLI	Echanahalli	Echanahalli	17120					
169	NALLAMPALLI	Echanahalli	Kale Govndanur	22790					
170	NALLAMPALLI	Echanahalli	Thinnur	21440					
171	NALLAMPALLI	Echanahalli	Hanumanthapuram	11460					
172	NALLAMPALLI	Echanahalli	indranagar	3790					
173	NALLAMPALLI	Echanahalli	GUDDAMPATTI	13240					
174	NALLAMPALLI	Echanahalli	Guttamaptti Colony	3790					
175	NALLAMPALLI	Echanahalli	BOYARKOTTAI	3880					
176	NALLAMPALLI	Echanahalli	Bolanaickanahalli & East	9450					
177	NALLAMPALLI	Echanahalli	Kattampattiyankottai	13590					
178	NALLAMPALLI	Echanahalli	Hanumanthapuram colony	3790					
179	NALLAMPALLI	Echanahalli	Annanagar	3880					
180	NALLAMPALLI	Echanahalli	Kale Govndanur New colony	3790					
181	NALLAMPALLI	Echanahalli	Kamarajnagar @ Boyar Kottai	3880					
182	NALLAMPALLI	Echanahalli	Keelkattampattiyankottai[n]	3880					

183	NALLAMPALLI	Errabaiyanahalli	Errabaiyanahalli	17120					
184	NALLAMPALLI	Errabaiyanahalli	Errabaiyanahalli - H	11460					
185	NALLAMPALLI	Errabaiyanahalli	Chinnaganahalli	17120					
186	NALLAMPALLI	Errabaiyanahalli	Gettupatti - H	16060					
187	NALLAMPALLI	Errabaiyanahalli	Mettukalkumbai	3790					
188	NALLAMPALLI	Errabaiyanahalli	Kongallakotai	3790					
189	NALLAMPALLI	Errabaiyanahalli	Sandarapatti	17120					
190	NALLAMPALLI	Errabaiyanahalli	Karubaiyanahalli	15210					
191	NALLAMPALLI	Errabaiyanahalli	Nekkundi	15210					
192	NALLAMPALLI	Errabaiyanahalli	Gettupatty	15210					
193	NALLAMPALLI	Errabaiyanahalli	Rajive Ganthi Nagar	3790					
194	NALLAMPALLI	Errabaiyanahalli	Eachampallam	15210					
195	NALLAMPALLI	Errabaiyanahalli	Muthappanagar	15210					
196	NALLAMPALLI	Errabaiyanahalli	Dasankottai	4350					
197	NALLAMPALLI	Errabaiyanahalli	Jemberimuniappan Koil[n]	3880					
198	NALLAMPALLI	Bandahalli	Pangunatham	24700					
199	NALLAMPALLI	Bandahalli	Bandahalli	24700					
200	NALLAMPALLI	Bandahalli	Parapatti	11460					
201	NALLAMPALLI	Bandahalli	Ramar Codel	35660					
202	NALLAMPALLI	Bandahalli	Bandahalli - H.C.	11080					
203	NALLAMPALLI	Bandahalli	Sellankottai	3880					
204	NALLAMPALLI	Bandahalli	Pangunatham Kurumbarkottai [n]	3880					
205	NALLAMPALLI	Palavadi	Palavadi	24140					
206	NALLAMPALLI	Palavadi	Palavadi Cheri	11460					
207	NALLAMPALLI	Palavadi	Paiyuran Kottai	9170					
208	NALLAMPALLI	Palavadi	Pandukottai	3790					
209	NALLAMPALLI	Palavadi	Ettamuthukottai & Molappanampatty	3790					
210	NALLAMPALLI	Palavadi	Molappanampatti	9920					
211	NALLAMPALLI	Palavadi	Kullampatty	8080					
212	NALLAMPALLI	Palavadi	Koorampatti	15620					
213	NALLAMPALLI	Palavadi	Dhathankottai	3790					
214	NALLAMPALLI	Palavadi	Mukkanahallikottai	3790					
215	NALLAMPALLI	Palavadi	Ganapatti	24230					
216	NALLAMPALLI	Palavadi	Matri Kottai	5420					
217	NALLAMPALLI	Palavadi	Salemmariamman koil	3790					
218	NALLAMPALLI	Palavadi	Dasan Kottai	5040					
219	NALLAMPALLI	Palavadi	Therkathaiyan Kottai	3880					
220	NALLAMPALLI	Palavadi	Sitherikottai	3880					
221	NALLAMPALLI	Palavadi	Kanchamalaikottai	3880					
222	NALLAMPALLI	Palavadi	Poovagoundankottai	3790					
223	NALLAMPALLI	Palavadi	Bangi Kottai	3880					
224	NALLAMPALLI	Palavadi	M.G.R.Nagar [n]	3880					
225	NALLAMPALLI	Palavadi	Sowlur	11830					

226	NALLAMPALLI	Bedrahalli	Mookanahalli	22790					
227	NALLAMPALLI	Bedrahalli	Vinayarkoil kottai	3790					
228	NALLAMPALLI	Bedrahalli	Manukkamhalli	3790					
229	NALLAMPALLI	Bedrahalli	Thippattiyankottai	3790					
230	NALLAMPALLI	Bedrahalli	Veeri Chetti Halli	16000					
231	NALLAMPALLI	Bedrahalli	Poochettihalli	19000					
232	NALLAMPALLI	Bedrahalli	Kurumbar Street	16370					
233	NALLAMPALLI	Bedrahalli	Kumpatti kottai	3790					
234	NALLAMPALLI	Bedrahalli	Badrahalli	20910					
235	NALLAMPALLI	Bedrahalli	Boyar kottai (street)	3790					
236	NALLAMPALLI	Bedrahalli	Solapadi	22040					
237	NALLAMPALLI	Bedrahalli	Hosa Halli Pudur	21100					
238	NALLAMPALLI	Bedrahalli	Kaliamman Koil Kottai	8830					
239	NALLAMPALLI	Bedrahalli	Thathan Kottai	9170					
240	NALLAMPALLI	Bedrahalli	Periyasamy Kottai	9360					
241	NALLAMPALLI	Bedrahalli	Arunganikottai	3790					
242	NALLAMPALLI	Bedrahalli	Kalli Kottai [n]	3880					
243	NALLAMPALLI	Bedrahalli	Kangankottai	3790					
244	NALLAMPALLI	Bedrahalli	Kandasamy Kottai [n]	3880					
245	NALLAMPALLI	Mittareddihalli	Mittareddihalli	44360					
246	NALLAMPALLI	Mittareddihalli	Poolapatti	11460					
247	NALLAMPALLI	Mittareddihalli	Embaranahalli	15620					
248	NALLAMPALLI	Mittareddihalli	Chinnareddihalli	20160					
249	NALLAMPALLI	Mittareddihalli	Komberikottai	6170					
250	NALLAMPALLI	Mittareddihalli	Kajamankottai	4290					
251	NALLAMPALLI	Mittareddihalli	Appanahalli	32620					
252	NALLAMPALLI	Mittareddihalli	Samiyarkottai	7860					
253	NALLAMPALLI	Mittareddihalli	Sowlur Kottai	21290					
254	NALLAMPALLI	Mittareddihalli	Errankattu Kottai[n]	3880					
255	NALLAMPALLI	Mittareddihalli	Mittareddihalli Colony[n]	13370					
256	NALLAMPALLI	Dinnahalli	Dinnahalli	26140					
257	NALLAMPALLI	Dinnahalli	Pudur	19750					
258	NALLAMPALLI	Dinnahalli	Komathampatti	25040					
259	NALLAMPALLI	Dinnahalli	Ettiyanur	19750					
260	NALLAMPALLI	Dinnahalli	Konangihalli	23540					
261	NALLAMPALLI	Dinnahalli	Veerichettihalli	22790					
262	NALLAMPALLI	Dinnahalli	Dinnahalli Gollakottai	4540					
263	NALLAMPALLI	Dinnahalli	Dinnahalli Colony	15210					
264	NALLAMPALLI	Dinnahalli	Nadur & Vija Nagar	9170					
265	NALLAMPALLI	Dinnahalli	Anna Nagar	3790					
266	NALLAMPALLI	Dinnahalli	Ram Nagar	3040					
267	NALLAMPALLI	Dinnahalli	Komathampatty Kollakottai	3230					
268	NALLAMPALLI	A.Jettihalli	A.Jettihalli	22790					
269	NALLAMPALLI	A.Jettihalli	Errahalli	37910					
270	NALLAMPALLI	A.Jettihalli	Chettiyur A.D. Colony	8420					

271	NALLAMPALLI	A.Jettihalli	Thengamarathupatti	26580					
272	NALLAMPALLI	A.Jettihalli	Oddapatti	33030					
273	NALLAMPALLI	A.Jettihalli	N.G.G.O.Colony	30330					
274	NALLAMPALLI	A.Jettihalli	P.W.D.Colony	20690					
275	NALLAMPALLI	A.Jettihalli	Royalnagar	20910					
276	NALLAMPALLI	A.Jettihalli	Dhagadur	4630					
277	NALLAMPALLI	A.Jettihalli	Jeeva Nagar	7670					
278	NALLAMPALLI	A.Jettihalli	Sakthi Nagar[n]	14870					
279	NALLAMPALLI	A.Jettihalli	Dhagadur East	3880					
280	NALLAMPALLI	A.Jettihalli	Drivers Colony	4700					
281	NALLAMPALLI	A.Jettihalli	Periyar Nagar	3880					
282	NALLAMPALLI	Maniyathahalli	Maniyathahalli (Jarugu)	62480					
283	NALLAMPALLI	Maniyathahalli	Jarugu Arunthathiyar Colony	30330					
284	NALLAMPALLI	Maniyathahalli	Kombu Kuttai	16750					
285	NALLAMPALLI	Maniyathahalli	Karuppanaickenpatti	7670					
286	NALLAMPALLI	Maniyathahalli	Manickam Pudur	14310					
287	NALLAMPALLI	Maniyathahalli	Kasappukaran Kottai	5790					
288	NALLAMPALLI	Maniyathahalli	Ajjipatti	20910					
289	NALLAMPALLI	Maniyathahalli	Podaran Kottai	15310					
290	NALLAMPALLI	Maniyathahalli	Kurumpattian Kottai	17120					
291	NALLAMPALLI	Maniyathahalli	Barigam	22790					
292	NALLAMPALLI	Maniyathahalli	Pennagarathapuram	20910					
293	NALLAMPALLI	Maniyathahalli	Malayappa Nagar - H	21850					
294	NALLAMPALLI	Maniyathahalli	Mel Easalpatty	19000					
295	NALLAMPALLI	Maniyathahalli	Mallichetti Kottai	3880					
296	NALLAMPALLI	Maniyathahalli	Mel Boorikkal	20910					
297	NALLAMPALLI	Maniyathahalli	Keel Boorikkal	7670					
298	NALLAMPALLI	Maniyathahalli	Bommalpatty	7670					
299	NALLAMPALLI	Maniyathahalli	Keel Boorikkal Manthaiveli	17120					
300	NALLAMPALLI	Maniyathahalli	Barigam Nadarkottai[n]	3880					
301	NALLAMPALLI	Maniyathahalli	Barigam Maruthi Nagar[n]	3880					
302	NALLAMPALLI	Maniyathahalli	Santherigoundan Kottai	3880					
303	NALLAMPALLI	Samichettipatti	Samichettipatti	43290					
304	NALLAMPALLI	Samichettipatti	Kamalanatham	11460					
305	NALLAMPALLI	Samichettipatti	Bollanahalli	6230					
306	NALLAMPALLI	Samichettipatti	Ellukuli	4290					
307	NALLAMPALLI	Samichettipatti	Palaniappan Kottai	4290					
308	NALLAMPALLI	Samichettipatti	Chinna Thathan Kottai	8420					
309	NALLAMPALLI	Samichettipatti	Sorangappan Pudur	11330					
310	NALLAMPALLI	Samichettipatti	Thasappan Kottai	13150					
311	NALLAMPALLI	Samichettipatti	Pangunatham Kottai	11460					
312	NALLAMPALLI	Samichettipatti	Alli Muthu Kottai	13710					
313	NALLAMPALLI	Samichettipatti	Gandhi Gramam	11460					
314	NALLAMPALLI	Samichettipatti	Uthukuli	7670					

315	NALLAMPALLI	Samichettipatti	Pennangukkaran Kottai	4160					
316	NALLAMPALLI	Samichettipatti	Ponnagar	3880					
317	NALLAMPALLI	Samichettipatti	Kannan Kottai	3880					
318	NALLAMPALLI	Samichettipatti	Durkalamman Kottai	3880					
319	NALLAMPALLI	Samichettipatti	Pulavan Kottai	3880					
320	NALLAMPALLI	Samichettipatti	Kamalanatham Colony	3880					
321	NALLAMPALLI	Samichettipatti	Subramaniyan Kottai	3880					
322	NALLAMPALLI	Samichettipatti	Andiyappan Kottai[n]	4630					
323	NALLAMPALLI	Samichettipatti	Boyar Colony[n]	4290					
324	NALLAMPALLI	Samichettipatti	SriRam Nagar	3880					
325	NALLAMPALLI	Samichettipatti	Uchimarathu Kottai	3880					
326	NALLAMPALLI	Dokkubothanahalli	Thathanaockenpatti	33150					
327	NALLAMPALLI	Dokkubothanahalli	Poovalmaduvoo	34120					
328	NALLAMPALLI	Dokkubothanahalli	Sunaikadu	13930					
329	NALLAMPALLI	Dokkubothanahalli	Kettuhalli	42320					
330	NALLAMPALLI	Dokkubothanahalli	Pachaveetukottai	20910					
331	NALLAMPALLI	Dokkubothanahalli	Perumalkottai	13710					
332	NALLAMPALLI	Dokkubothanahalli	Kariyanur	6730					
333	NALLAMPALLI	Dokkubothanahalli	Hanumanthapuram	6540					
334	NALLAMPALLI	Dokkubothanahalli	Subramanian Kottai	6510					
335	NALLAMPALLI	Dokkubothanahalli	Anna Nagar[n]	4160					
336	NALLAMPALLI	Dokkubothanahalli	Kakachi Nagar	3880					
337	NALLAMPALLI	Dokkubothanahalli	Thurkallimman Koil	3880					
338	NALLAMPALLI	Dokkubothanahalli	Moor Kottai	3910					
339	NALLAMPALLI	Dokkubothanahalli	Sevathan Kottai	3880					
340	NALLAMPALLI	Dokkubothanahalli	Sidduran Kottai	3880					
341	NALLAMPALLI	Dokkubothanahalli	Thalavarasan Kottai	3160					
342	NALLAMPALLI	Dokkubothanahalli	Vellakkal	3910					
343	NALLAMPALLI	Nagarkoodal	Kumpalapadi Koil Kottai	26580					
344	NALLAMPALLI	Nagarkoodal	Bodanur	9580					
345	NALLAMPALLI	Nagarkoodal	Nadappanahalli	31120					
346	NALLAMPALLI	Nagarkoodal	Kulandai Kottai	7670					
347	NALLAMPALLI	Nagarkoodal	Vanathu Kottai	6920					
348	NALLAMPALLI	Nagarkoodal	Sengankottai	8830					
349	NALLAMPALLI	Nagarkoodal	Nagarcodel	28740					
350	NALLAMPALLI	Nagarkoodal	Moosagoundankottai	8830					
351	NALLAMPALLI	Nagarkoodal	Avvai Colony	14120					
352	NALLAMPALLI	Nagarkoodal	Kalani Kattur	18250					
353	NALLAMPALLI	Nagarkoodal	Kumbalapadi	3880					
354	NALLAMPALLI	Narthampatti	Gopal Kottai	3790					
355	NALLAMPALLI	Narthampatti	Kottampatty	19000					
356	NALLAMPALLI	Narthampatti	Chittur-H	11930					
357	NALLAMPALLI	Narthampatti	Eri Kodi Patti	21850					
358	NALLAMPALLI	Narthampatti	Kanananoor-H	13770					
359	NALLAMPALLI	Narthampatti	Mettukottai	8640					

360	NALLAMPALLI	Narthampatti	Malaiyan Kulam [n]	3790					
361	NALLAMPALLI	Narthampatti	Bharathi Nagar	3790					
362	NALLAMPALLI	Narthampatti	Sowlu Kottai	9330					
363	DHARMAPURI	Hale Dharmapuri	Haladharmapuri	68780					
364	DHARMAPURI	Hale Dharmapuri	Kodimodu	7860					
365	DHARMAPURI	Hale Dharmapuri	Bharathinagar	17530					
366	DHARMAPURI	Hale Dharmapuri	CHINNATHOPPUKOTTAI	26550					
367	DHARMAPURI	Hale Dharmapuri	Annanager	3790					
368	DHARMAPURI	Hale Dharmapuri	M.G.R.Nager	21760					
369	DHARMAPURI	Kuppur	Elep Hospital	9360					
370	DHARMAPURI	Kondampatty	Kodampatti	13370					
371	DHARMAPURI	Kondampatty	Lalithanur	8920					
372	DHARMAPURI	Kondampatty	Thurinjpatti	13370					
373	DHARMAPURI	Kondampatty	Keelveppanampatti	8920					
374	DHARMAPURI	Kondampatty	Mel Veepanampatti	11110					
375	DHARMAPURI	Kondampatty	Nonaguttaiyur	6730					
376	DHARMAPURI	Kondampatty	Kilakkuvettukottai	5790					
377	DHARMAPURI	Kondampatty	Mettu Kollakottai	9640					
378	DHARMAPURI	Kondampatty	Karthanoor	9140					
379	DHARMAPURI	Kondampatty	Moolakadu	11180					
380	DHARMAPURI	Kondampatty	Moolakadu Ar Colony	4540					
381	DHARMAPURI	Kondampatty	Puliyampatti	15840					
382	DHARMAPURI	Kondampatty	Nagamkottai	8920					
383	DHARMAPURI	Kondampatty	Chetti Veetu Kottai	4570					
384	DHARMAPURI	Kondampatty	Lalitha Kottai-N	3880					
385	DHARMAPURI	Krishnapuram	Krishnapuram Kottu Road	8730					
386	DHARMAPURI	Krishnapuram	P. MOTTU PATTI	27110					
387	DHARMAPURI	Krishnapuram	Kottayur	8920					
388	DHARMAPURI	Krishnapuram	Nadur	11180					
389	DHARMAPURI	Krishnapuram	Vaguthupatti Anna Nagar	4540					
390	DHARMAPURI	Krishnapuram	Vaguthupatti	22130					
391	DHARMAPURI	Krishnapuram	Mavadi Patti	25830					
392	DHARMAPURI	Krishnapuram	Krishnapuram Colony	4540					
393	DHARMAPURI	Krishnapuram	Vaguthupatty Anna Nagar	3880					
394	DHARMAPURI	Andihalli	Onniyampatti	20820					
395	DHARMAPURI	Andihalli	Kelandihalli	8920					
396	DHARMAPURI	Andihalli	Raman Kottai	4410					
397	DHARMAPURI	Andihalli	Seeram Patti	15210					
398	DHARMAPURI	Andihalli	Sowlu Patti	13370					
399	DHARMAPURI	Andihalli	Guttur	10330					
400	DHARMAPURI	Andihalli	Chinnavathiyar Kottai	6200					
401	DHARMAPURI	Andihalli	Nagankottai	4510					
402	DHARMAPURI	Andihalli	Arunthathiyar Colony-N	3040					
403	DHARMAPURI	Andihalli	Anna Nagar Colony	3880					
404	DHARMAPURI	Pulithikarai	Pulithikarai	38880					

405	DHARMAPURI	Pulithikarai	Kilakukottai	8920					
406	DHARMAPURI	Pulithikarai	C.Mottu Patti	21260					
407	DHARMAPURI	Pulithikarai	Kattampatti	18970					
408	DHARMAPURI	Pulithikarai	C.Mottupatti H	4570					
409	DHARMAPURI	Pulithikarai	Pulithikarai Colony-N	19940					
410	DHARMAPURI	Pulithikarai	Kottakarai	4700					
411	DHARMAPURI	Nallasenahalli	Reddiyur	12400					
412	DHARMAPURI	Nallasenahalli	Thinnapatti	8920					
413	DHARMAPURI	Nallasenahalli	Avalnaicken Patti	8700					
414	DHARMAPURI	Nallasenahalli	Muthgounden Kottai	7010					
415	DHARMAPURI	Nallasenahalli	Samigoundanur	10710					
416	DHARMAPURI	Nallasenahalli	Beemachi Nagar	3880					
417	DHARMAPURI	Nallasenahalli	Sowluran Kottai	3040					
418	DHARMAPURI	Konanginaickanahalli	Konanginaickanahalli	20970					
419	DHARMAPURI	Konanginaickanahalli	Ganesankottai	4570					
420	DHARMAPURI	Konanginaickanahalli	Mathimarathuppatti	4570					
421	DHARMAPURI	Konanginaickanahalli	Konanginackenahallikottai	4570					
422	DHARMAPURI	Konanginaickanahalli	Maravadi H	34280					
423	DHARMAPURI	Konanginaickanahalli	Maravadi Kottai	3790					
424	DHARMAPURI	Konanginaickanahalli	Sellankottai	9170					
425	DHARMAPURI	Konanginaickanahalli	Jothinagar	4850					
426	DHARMAPURI	Konanginaickanahalli	Vandikarankottai	4510					
427	DHARMAPURI	Konanginaickanahalli	Kathirnaickanahalli	9140					
428	DHARMAPURI	Konanginaickanahalli	Mondikarankottai	3790					
429	DHARMAPURI	Konanginaickanahalli	Attukarankottai	4070					
430	DHARMAPURI	Konanginaickanahalli	Cylon Colony	3880					
431	DHARMAPURI	Konanginaickanahalli	Maravadi Palayur	3910					
432	DHARMAPURI	Semmandakuppam	Nallampatti	19500					
433	DHARMAPURI	Semmandakuppam	Nallampattybusstop	11330					
434	DHARMAPURI	Semmandakuppam	Chinnapudur	17720					
435	DHARMAPURI	Semmandakuppam	Periyapudr	19940					
436	DHARMAPURI	Semmandakuppam	Gundalapatti	47490					
437	DHARMAPURI	Semmandakuppam	Muthupatti	18250					
438	DHARMAPURI	Semmandakuppam	Semmandakuppam	18000					
439	DHARMAPURI	Semmandakuppam	Gundalapatti Bus Stop	3880					
440	DHARMAPURI	Semmandakuppam	Kaverigoundan Kottai	3880					

441	DHARMAPURI	Vellalapatti	Vellapatti	12120						
442	DHARMAPURI	Vellalapatti	Vellapatti H	8920						
443	DHARMAPURI	Vellalapatti	Vellalapatti Koot Road	4980						
444	DHARMAPURI	Vellalapatti	Sunnampatti	9610						
445	DHARMAPURI	Vellalapatti	Pudugudiyankottai	4510						
446	DHARMAPURI	Vellalapatti	Natham H	23540						
447	DHARMAPURI	Vellalapatti	Milaganur	6730						
448	DHARMAPURI	Vellalapatti	Nathamkottai	6730						
449	DHARMAPURI	Vellalapatti	Thalaikaran Kottai	5570						
450	DHARMAPURI	Vellalapatti	V.Gollapatti	22850						
451	DHARMAPURI	Vellalapatti	Karayan Kotai	6730						
452	DHARMAPURI	Vellalapatti	Konampatti	8920						
453	DHARMAPURI	Vellalapatti	Siddar Kottai-N	4600						
454	MATHUR	Kunnathur	Lakshmanan Kottai	5790						
455	MATHUR	Kunnathur	Tapalkaran Kottaai	5790						
456	MATHUR	Kunnathur	Muthu Goundanur	11460						
457	MATHUR	Kunnathur	Chennanur	9580						
458	MATHUR	Kunnathur	Vaduganur	20910						
459	MATHUR	Kunnathur	Annamalaiyur	5790						
460	MATHUR	Kunnathur	Velagoundan Kottai	3880						
461	MATHUR	Kunnathur	Vadukanur Alamaram	3880						
462	MATHUR	Kunnathur	Kunnathur AR Colony	3880						
463	MATHUR	Kunnathur	Kottamedu	3880						
464	MATHUR	Kunnathur	Thangamani vattam pattalamkoiil	3880						
465	MATHUR	K.Paparapatti	K.Papara Patti	22400						
466	MATHUR	K.Paparapatti	Vadaku Metu Kottai	11159						
467	MATHUR	K.Paparapatti	Mottur Vadaku Metu Kottai	13558						
468	MATHUR	K.Paparapatti	Atthimarathu Kottai	11157						
469	MATHUR	K.Paparapatti	Manguttai	9195						
470	MATHUR	K.Paparapatti	Lakshmana Goundan Kottai	9194						
471	MATHUR	K.Paparapatti	Amman Nagar	7672						
472	MATHUR	K.Paparapatti	Maniakaran vattam	7671						
473	MATHUR	Ramakrishnam Pathi	Ramakrishnam Pathi	10690						
474	MATHUR	Ramakrishnam Pathi	Athimoolamvattam	3059						
475	MATHUR	Ramakrishnam Pathi	Alamarathu Kottai	5714						
476	MATHUR	Ramakrishnam Pathi	Kottapathi	16104						
477	MATHUR	Ramakrishnam Pathi	Kamatchi Patti	9929						
478	MATHUR	Ramakrishnam Pathi	Beempathi	5794						
479	MATHUR	Ramakrishnam Pathi	Sandan Kottai	11199						

480	MATHUR	Ramakrishnam Pathi	Kamatchi Patti Golla Kottai	3879						
481	MATHUR	Ramakrishnam Pathi	Vadakkumettu Kottai	5714						
482	MATHUR	Ramakrishnam Pathi	Kamatchipatti Hc	3714						
483	MATHUR	Veerachi Kuppam	Veerachi Kuppam	27469						
484	MATHUR	Veerachi Kuppam	Kurumbar Street	3875						
485	MATHUR	Veerachi Kuppam	Kavaliganur	8313						
486	MATHUR	Veerachi Kuppam	Koorkam Patti	3875						
487	MATHUR	Veerachi Kuppam	Koravan Pallam	3875						
488	MATHUR	Veerachi Kuppam	Kulerikan Medu	7656						
489	MATHUR	Veerachi Kuppam	Karuvanur	3906						
490	MATHUR	Veerachi Kuppam	Karuvanur Colony	3750						
491	MATHUR	Veerachi Kuppam	Nagamarithu Pallam	3875						
492	MATHUR	K.Ettipatti	Kookacheranur	7669						
493	MATHUR	K.Ettipatti	Pudu Panam Thopu	7669						
494	MATHUR	K.Ettipatti	Kunnathur Rs	5794						
495	MATHUR	K.Ettipatti	Pudu Devarayan Kottai	7669						
496	MATHUR	K.Ettipatti	Koonam Pattai	6129						
497	MATHUR	K.Ettipatti	Mangavaram	6129						
498	MATHUR	K.Ettipatti	Veethikaran Kottai	3919						
499	MATHUR	K.Ettipatti	Motur	5794						
500	MATHUR	K.Ettipatti	Kathiram Patti	9584						
501	MATHUR	K.Ettipatti	Pattan Kottai	3879						
502	MATHUR	K.Ettipatti	Keez Ettipatti	5794						
503	MATHUR	K.Ettipatti	Etti Patti	35250						
504	MATHUR	K.Ettipatti	Nagan Kottai	5143						
505	MATHUR	K.Ettipatti	Karadigoundanur	5794						
506	MATHUR	K.Ettipatti	Raman Kottai	3879						
507	MATHUR	K.Ettipatti	Peraman Kottai	3879						
508	MATHUR	K.Ettipatti	Suruttaiyan Kottai	3879						
509	MATHUR	K.Ettipatti	Seekan Kottai	3879						
510	MATHUR	Narrala Palli	Badadasan Patti	17125						
511	MATHUR	Narrala Palli	Kurasam Patti	6438						
512	MATHUR	Narrala Palli	Kurasam Patti Colony	4040						
513	MATHUR	Narrala Palli	Kottavur	7656						
514	MATHUR	Narrala Palli	Gulagana Palli	11438						
515	MATHUR	Narrala Palli	Narala Palli	18000						
516	MATHUR	Narrala Palli	Oddapatti	10500						
517	MATHUR	Narrala Palli	Chavadiyur	9563						
518	MATHUR	Narrala Palli	Naralapalli Kattu Kottai	11438						
519	MATHUR	Narrala Palli	Padadhasam Patti Ad Colony	3875						
520	MATHUR	Narrala Palli	Savalur	5781						
521	MATHUR	Narrala Palli	Parasanur pothlan vattam	4250						

522	MATHUR	Samal Patti	Samal Patti	56406					
523	MATHUR	Samal Patti	Mel Samal Patti	16375					
524	MATHUR	Samal Patti	Mavadan Kottai	3844					
525	MATHUR	Samal Patti	Subramani Nagar	19563					
526	MATHUR	Samal Patti	Pudukadu	5781					
527	MATHUR	Samal Patti	Kanchiyam Patti	9563					
528	MATHUR	Samal Patti	Mookanur - Venkatesan Vattam	7656					
529	MATHUR	Samal Patti	Mamarathu Kottai	9563					
530	MATHUR	Samal Patti	Kanichi	11438					
531	MATHUR	Samal Patti	Ganganur	15219					
532	MATHUR	Samal Patti	Pasanthi	23344					
533	MATHUR	Samal Patti	Thiladan Kottai	5781					
534	MATHUR	Samal Patti	Ambedkar colony	8406					
535	MATHUR	Bommepalli	Bommepalli	9875					
536	MATHUR	Bommepalli	Chennappa Naikan Kottai	3594					
537	MATHUR	Bommepalli	Sigaralapalli	3594					
538	MATHUR	Bommepalli	Karungal Nagar	7750					
539	MATHUR	Bommepalli	Gundepalli	8313					
540	MATHUR	Bommepalli	Jeedi Kuppam	5563					
541	MATHUR	Bommepalli	Karungali Patti	7625					
542	MATHUR	Bommepalli	Kaligovindan Kottai	1875					
543	MATHUR	Bommepalli	Palani Vattam (Chennan Vattam)	1875					
544	MATHUR	Bommepalli	Sappaniyur	3594					
545	MATHUR	Bommepalli	Sowlur-	3594					
546	MATHUR	Bommepalli	Pandaran Kottai	3594					
547	MATHUR	Bommepalli	Kariyan Vattam	3594					
548	MATHUR	Bommepalli	Molivayan Vattam	3594					
549	MATHUR	Bommepalli	Oorgoundan Vattam	3594					
550	MATHUR	Bommepalli	Subramaniyam Vattam	3594					
551	MATHUR	Bommepalli	Bajari Vattam	3594					
552	MATHUR	Bommepalli	Chinna Kottayan Vattam (Chinu Vattam)	3594					
553	MATHUR	Bommepalli	Karungalpatti Colony	5781					
554	MATHUR	Bommepalli	GD Kuppam colony	3031					
555	UTHAGARAI	Maram Patty	Kanam Patty	20950					
556	UTHAGARAI	Maram Patty	Vediappan Koil Vattam	6920					
557	UTHAGARAI	Maram Patty	M .G. R. Nagar Udayar Kottai	4070					
558	UTHAGARAI	Maram Patty	Thangavel Kottai	3630					
559	UTHAGARAI	Maram Patty	Marampatti Ambekar Colony	13370					
560	UTHAGARAI	Maram Patty	Puliankuttai Eri	3880					
561	UTHAGARAI	Maram Patty	Kannabiran Kottai	4820					
562	UTHAGARAI	Maram Patty	Kurunji Nagar	2780					
563	UTHAGARAI	Athi Padi	Athi Padi	45610					

564	UTHAGARAI	Athi Padi	Velavan Nagar	8830					
565	UTHAGARAI	Athi Padi	Pallathur	16000					
566	UTHAGARAI	Athi Padi	Punganai	6580					
567	UTHAGARAI	Athi Padi	Pallathur Ambetkar Colony N	10710					
568	UTHAGARAI	Athi Padi	Periyar Nagar	4670					
569	UTHAGARAI	Athi Padi	Neepathurai - Sengam road	3313					
570	UTHAGARAI	Naickanur	Naickanur	22125					
571	UTHAGARAI	Naickanur	Naickanur Pudur	12375					
572	UTHAGARAI	Naickanur	Genddiganur	15188					
573	UTHAGARAI	Naickanur	Ayyakkannu Kottai	3938					
574	UTHAGARAI	Naickanur	Rajanagar	5781					
575	UTHAGARAI			85440					
576	UTHAGARAI	Singara Pettai	Malli Patty	25080					
577	UTHAGARAI	Singara Pettai	Malli Patty Ar Colony	5790					
578	UTHAGARAI	Singara Pettai	Narasam Patty	13780					
579	UTHAGARAI	Singara Pettai	Narasam Patty Ambethkar Nagar	28680					
580	UTHAGARAI	Singara Pettai	Kurukka Patty	67910					
581	UTHAGARAI	Singara Pettai	Puliyannur	16450					
582	UTHAGARAI	Singara Pettai	Avaran Kottai	11400					
583	UTHAGARAI	Singara Pettai	Neethaji Nagar	9580					
584	UTHAGARAI	Singara Pettai	Theerthagiri Valasai	11080					
585	UTHAGARAI	Singara Pettai	Singara Pettai	68340					
586	UTHAGARAI	Singara Pettai	Dharmaraja Nagar	6460					
587	UTHAGARAI	Singara Pettai	Kennadi Nagar	22790					
588	UTHAGARAI	Singara Pettai	Perumal Koil Nagar	4670					
589	UTHAGARAI	Singara Pettai	Sri Varasakthi Vinayagar Nagar	4810					
590	UTHAGARAI	Singara Pettai	Singaravelan nagar	8625					
591	UTHAGARAI	Singara Pettai	Syed nagar	6656					
592	UTHAGARAI	Eggur	Andiyur	13640					
593	UTHAGARAI	Eggur	Andiyur Koot Road	13230					
594	UTHAGARAI	Eggur	Pallathur	5790					
595	UTHAGARAI	Eggur	Badathanur	19938					
596	UTHAGARAI	Eggur	Jollan Kottai	13410					
597	UTHAGARAI	Eggur	Sennanur	5790					
598	UTHAGARAI	Eggur	Anna Nagar	3880					
599	UTHAGARAI	Eggur	Eggur	21875					
600	UTHAGARAI	Eggur	Poosaari Kottai	7830					
601	UTHAGARAI	Eggur	Periyar nagar	4200					
602	UTHAGARAI	Eggur	Narikuravar Colony	5790					
603	UTHAGARAI	Eggur	Pudur	9580					
604	UTHAGARAI	Eggur	Samichi Kotai	17160					
605	UTHAGARAI	Eggur	Chinna Goundar Vattam	3710					

606	UTHAGARAI	Eggur	Gandhi Nagar	3350					
607	UTHAGARAI	Eggur	Eggur Hc	19510					
608	UTHAGARAI	Eggur	Andiyur pudur	4156					
609	UTHAGARAI	Eggur	Nadu goundar vattam	4656					
610	UTHAGARAI	Govindapuram	Rendatham Patty	7670					
611	UTHAGARAI	Govindapuram	Govinda Puram	39120					
612	UTHAGARAI	Govindapuram	Nadur	22790					
613	UTHAGARAI	Govindapuram	Palkaran Kottai	5790					
614	UTHAGARAI	Govindapuram	Gadaganur Pudur	5830					
615	UTHAGARAI	Govindapuram	Govindapuram AD Colony	8563					
616	UTHAGARAI	Keelmathur	Keel Mathur	32240					
617	UTHAGARAI	Keelmathur	Ariyanur	12960					
618	UTHAGARAI	Keelmathur	Kaveri Kottai	9580					
619	UTHAGARAI	Keelmathur	Nattan Kottai	7670					
620	UTHAGARAI	Keelmathur	Mavu Thalaian Kottai	3880					
621	UTHAGARAI	Keelmathur	Thirupatty Kottai	8420					
622	UTHAGARAI	Keelmathur	Anna Nagar	7670					
623	UTHAGARAI	Keelmathur	Uthukuli Nagar	4540					
624	UTHAGARAI	Keelmathur	Thikan Vattam	3880					
625	UTHAGARAI	Keelmathur	Andi Goundar Nagar	3880					
626	UTHAGARAI	Periya Thalla Pady	Reddi Valasai	25040					
627	UTHAGARAI	Periya Thalla Pady	Puduram Kottai	9580					
628	UTHAGARAI	Periyathallapady	Periya Thala Padi	71750					
629	UTHAGARAI	Periyathallapady	Chinna Goundan Kottai	7670					
630	UTHAGARAI	Periyathallapady	Periyathalapadi Kamarajar Colony	73440					
631	UTHAGARAI	Periyathallapady	Chinna Gounda Puram	7670					
632	UTHAGARAI	Periyathallapady	Kanikarankollakottai	4290					
633	UTHAGARAI	Periyathallapady	M.G.R.Nagar	5790					
634	UTHAGARAI	Periyathallapady	Vaalankottai	4290					
635	UTHAGARAI	Kadavani	Kadavani	13844					
636	UTHAGARAI	Kadavani	Kadavani Kattu Kottai	4813					
637	UTHAGARAI	Kadavani	Pudur	3500					
638	UTHAGARAI	Kadavani	Kannanur	14469					
639	UTHAGARAI	Kadavani	Aruna Patty	15156					
640	UTHAGARAI	Kadavani	Ghandhi Nagar	3875					
641	UTHAGARAI	Kadavani	Karumariamman Kovil Vattam New	6875					
642	UTHAGARAI	Kadavani	Kannan vattam	4156					
643	UTHAGARAI	Kadavani	Mailadumparai	4156					
644	UTHAGARAI	Kadavani	Pillukarampatti	3031					
645	UTHAGARAI	Kadavani	Samathuvapuram & Arikari perumal Koil	3313					
646	UTHAGARAI	Kara Pattu	Thagara Pattu	19850					
647	UTHAGARAI	Kara Pattu	Periyasamy Nagar	3040					
648	UTHAGARAI	Kara Pattu	Sagadevan Kottai	6920					

649	UTHAGARAI	Kara Pattu	Chinna Thagara Pattu	9580					
650	UTHAGARAI	Kara Pattu	Valathinur	8420					
651	UTHAGARAI	Kara Pattu	Palli Kodathanur	6920					
652	UTHAGARAI	Kara Pattu	Anna Nagar	3880					
653	UTHAGARAI	Kara Pattu	Kara Pattu	33030					
654	UTHAGARAI	Kara Pattu	Karapattu Kolla Kottai	4820					
655	UTHAGARAI	Kara Pattu	Jangal Kudisai	6920					
656	UTHAGARAI	Kara Pattu	Kanda Goundanur	4070					
657	UTHAGARAI	Kara Pattu	Vannam Palli	23540					
658	UTHAGARAI	Kara Pattu	Chettiyar Vattam	3880					
659	UTHAGARAI	Kara Pattu	M.G.R. Nagar	4290					
660	UTHAGARAI	Kara Pattu	Amman Nagar	3880					
661	UTHAGARAI	Kara Pattu	Veeracholan Nagar	4820					
662	UTHAGARAI	Kara Pattu	Ramankottai	3031					
663	UTHAGARAI	Karumanda Pathy	Mutham Patty	14870					
664	UTHAGARAI	Karumanda Pathy	Karumanda Pathy	14240					
665	UTHAGARAI	Karumanda Pathy	Anna Nagar	3880					
666	UTHAGARAI	Karumanda Pathy	Elachur	13710					
667	UTHAGARAI	Karumanda Pathy	Jonparai Eakantha Puram	4290					
668	UTHAGARAI	Karumanda Pathy	Mari Goundanur	3880					
669	UTHAGARAI	Karumanda Pathy	Periya Goundanur	15620					
670	UTHAGARAI	Karumanda Pathy	Lakshmanan Kottai	3880					
671	UTHAGARAI	Karumanda Pathy	Nadu Patty	4290					
672	UTHAGARAI	Karumanda Pathy	Sennanur	3880					
673	UTHAGARAI	Katteri	Dathanur	6920					
674	UTHAGARAI	Katteri	Katteri	38850					
675	UTHAGARAI	Katteri	Hanuman Theertham-1	37906					
676	UTHAGARAI	Katteri	Veppalam Patty	24700					
677	UTHAGARAI	Katteri	Onnakarai	8420					
678	UTHAGARAI	Katteri	Lakkam Patty	15210					
679	UTHAGARAI	Katteri	Lakkam Patty Sc Colony	19600					
680	UTHAGARAI	Katteri	Alamarathu Kottai	11080					
681	UTHAGARAI	Katteri	Karukkam Patty-	14870					
682	UTHAGARAI	Moogileri	Moongileri	29650					
683	UTHAGARAI	Moogileri	Chinna Moogileri	7670					
684	UTHAGARAI	Moogileri	Pudu Patty	14970					
685	UTHAGARAI	Moogileri	Chinna Pudu Patty	7670					
686	UTHAGARAI	Moogileri	Mottan Kurichi	3720					
687	UTHAGARAI	Moogileri	Ghandhi Nagar	3900					
688	UTHAGARAI	Moogileri	Poyyakuttai	5790					
689	UTHAGARAI	Moogileri	Poolakuttai	5790					
690	UTHAGARAI	Pavakkal	Kariyaa Perumal Valasai	13370					
691	UTHAGARAI	Pavakkal	Chinna Goundanur	11870					
692	UTHAGARAI	Pavakkal	Gandhi Nagar	7480					
693	UTHAGARAI	Pavakkal	Pavaakkal	32930					

694	UTHAGARAI	Pavakkal	Nallavam Patty Pudur	12930					
695	UTHAGARAI	Pavakkal	Naicken Kottai (Mettu Kottai)	4290					
696	UTHAGARAI	Pavakkal	Poosariyur	6920					
697	UTHAGARAI	Pavakkal	Pulliyampatti	4290					
698	UTHAGARAI	Pavakkal	Kamaraj Nagar	6730					
699	UTHAGARAI	Pavakkal	Pudukuttai Vadikal	3880					
700	UTHAGARAI	Pavakkal	Pavakkal colony	4156					
701	UTHAGARAI	Pavakkal	Ambedkar nagar	4156					
702	UTHAGARAI	Pudur Punganai	Oddam Patty	19156					
703	UTHAGARAI	Pudur Punganai	Bahagavathsingh Nagar	2969					
704	UTHAGARAI	Pudur Punganai	Pudur	14031					
705	UTHAGARAI	Pudur Punganai	Punganai	16000					
706	UTHAGARAI	Pudur Punganai	Punganai Asari Theru	6130					
707	UTHAGARAI	Pudur Punganai	Venkat Raaman Vattam	3880					
708	UTHAGARAI	Pudur Punganai	Mannadi Patty H	26580					
709	UTHAGARAI	Pudur Punganai	Mannadi Patty	28490					
710	UTHAGARAI	Pudur Punganai	Kona Patty	11460					
711	UTHAGARAI	Pudur Punganai	Kona Patty Kolla Kottai	3880					
712	UTHAGARAI	Pudur Punganai	Murukkathal	4070					
713	UTHAGARAI	Pudur Punganai	Periyar Nagar	4710					
714	UTHAGARAI	Pudur Punganai	Upparapatti	2980					
715	UTHAGARAI	Pudur Punganai	Melakapatti	3880					
716	UTHAGARAI	Chadra Patty	Chandra Patty	20910					
717	UTHAGARAI	Chadra Patty	Chinna Chandra Patty	11460					
718	UTHAGARAI	Chadra Patty	Chandara Patty Colony	11460					
719	UTHAGARAI	Chadra Patty	Sengal Patty	6920					
720	UTHAGARAI	Chadra Patty	Giddam Patty	3880					
721	UTHAGARAI	Chadra Patty	Oomai Goundanur	3880					
722	UTHAGARAI	Chadra Patty	Kaattu Sigiri Patty	5790					
723	UTHAGARAI	Chadra Patty	Veda Patty	16560					
724	UTHAGARAI	Chadra Patty	Parattur Pallam	5790					
725	UTHAGARAI	Chadra Patty	Vellimali	12210					
726	UTHAGARAI	Chadra Patty	Vedapatti St Colony	4670					
727	UTHAGARAI	Veerana Kuppam	Kattanur	8270					
728	UTHAGARAI	Veerana Kuppam	Veerana Kuppam	19000					
729	UTHAGARAI	Veerana Kuppam	Kathiram Patty	4550					
730	UTHAGARAI	Veerana Kuppam	Vennam Patty	12810					
731	UTHAGARAI	Veerana Kuppam	Gollapatty	9580					
732	UTHAGARAI	Veerana Kuppam	Kattanur Bus stop	5625					
733	UTHAGARAI	Periya Kotta Kulam	Periya Kotta Kulam @ Solaiyur	15060					
734	UTHAGARAI	Periya Kotta Kulam	Sengalaneer Patty	15400					
735	UTHAGARAI	Periya Kotta Kulam	Chetti Patty	16000					
736	UTHAGARAI	Periya Kotta Kulam	Vairam Patty	4820					

737	UTHAGARAI	Periya Kotta Kulam	Naganur	11270					
738	UTHAGARAI	Periya Kotta Kulam	Chinna Kotta Kulam	8420					
739	UTHAGARAI	PeriyaKottaKulam	Thoppalam Kottai	4070					
740	UTHAGARAI	PeriyaKottaKulam	Perumal Nagar	3880					
741	UTHAGARAI	PeriyaKottaKulam	Mathuppan Kottai	3880					
742	UTHAGARAI	PeriyaKottaKulam	J . J . Nagar	3880					
743	UTHAGARAI	PeriyaKottaKulam	Kamaraj Nagar	3880					
744	UTHAGARAI	PeriyaKottaKulam	Bharathamedu N	4070					
745	UTHAGARAI	PeriyaKottaKulam	Solayur Arunthathi Colony N	4290					
746	UTHAGARAI	PeriyaKottaKulam	Sevathanvattam N	4070					
747	UTHAGARAI	Thiruvana Patty	Thiruvana Patty	16188					
748	UTHAGARAI	Thiruvana Patty	Chinna Kamachi Patty	16813					
749	UTHAGARAI	Thiruvana Patty	Chinna Ananthur	4160					
750	UTHAGARAI	Thiruvana Patty	Mettu Cheri	11190					
751	UTHAGARAI	Thiruvana Patty	Thiruvana Pathy Colony	8610					
752	UTHAGARAI	Thiruvana Patty	Mutham Patty	8270					
753	UTHAGARAI	Thiruvana Patty	Mutham Patty Vinayagar koil	2656					
754	UTHAGARAI	Thiruvana Patty	Periya Kamachi Patty H	12620					
755	UTHAGARAI	Thiruvana Patty	Veeran Vattam	4820					
756	UTHAGARAI	Vella Kuttai	Vella Kuttai	4094					
757	UTHAGARAI	Vella Kuttai	Kamarajar Nagar	4110					
758	UTHAGARAI	Vella Kuttai	J.J.Nagar	3660					
759	UTHAGARAI	Vella Kuttai	Threethagiri valasai Colony & Bharathi nagar	3313					
C	Tail End Beneficiaries								
1	PENNAGARAM	Paruvathanahalli	Kallipuram Keelur H	19100					
2	PENNAGARAM	Paruvathanahalli	Samiyar Kottai	4230					
3	PENNAGARAM	Kodihall	Manthaimettur	5850					
4	PENNAGARAM	Kodihall	Karungal Medu Dam	3790					
5	PENNAGARAM	Koothapadi	Rajaeri kottai	3790					
6	PENNAGARAM	Koothapadi	Boothipatti	10390					
7	PENNAGARAM	Koothapadi	Moopanan Theru	4260					
8	PENNAGARAM	Kookkuttamarathuh alli	Peria Thottam	6700					
9	PENNAGARAM	Kookkuttamarathuh alli	Kollan kottai/ Ettipallam	3790					
10	PENNAGARAM	Vattuvanahalli	Jalmarampatti	8330					
11	PENNAGARAM	Vattuvanahalli	Naganampatti	14650					
12	PENNAGARAM	Vattuvanahalli	Thumkkal	7260					
13	PENNAGARAM	Billiyanur	Sakkilikuttai	4260					
14	PENNAGARAM	Billiyanur	Bikkampatti	50780					
15	PENNAGARAM	Mangarai	Mangarai	58730					
16	PENNAGARAM	Mangarai	Kullathirampatti	25110					

17	PENNAGARAM	Anjehalli	Rengapuram (Nallaparappatty Agamudaiyar st;)	44230					
18	PENNAGARAM	Anjehalli	Agragararm	11460					
19	PENNAGARAM	Sunjalnatham	Moolabellur @ Bellur Kattu Valu	16150					
20	PENNAGARAM	Sunjalnatham	M.THANDA	12430					
21	PENNAGARAM	Thonnagudlahalli	Paruthkattu Thinnai	4260					
22	PENNAGARAM	Thonnagudlahalli	Erikadu	3790					
23	PENNAGARAM	Bathrahalli	Anna Nagar	3790					
24	PENNAGARAM	Bathrahalli	Muniyappan Kovil Koottai	6700					
25	PENNAGARAM	Ajjanahalli	Ajjanahalli	37130					
26	PENNAGARAM	Ajjanahalli	Chinnapanallur	33340					
27	PENNAGARAM	Ajjanahalli	Irular Kottai	4260					
28	PENNAGARAM	Nagamarai	Oddanur	30330					
29	PENNAGARAM	Nagamarai	Sampalli Kadu	5070					
30	PENNAGARAM	Nagamarai	Vanniya Nagar	3790					
31	PENNAGARAM	Ramagondahalli	Nallur Kattu Valau	4630					
32	PENNAGARAM	Ramagondahalli	Ammasikottai	3790					
33	PENNAGARAM	Manjarahalli	Vadakkukombai	3790					
34	PENNAGARAM	Manjarahalli	Manjarapatty(Kadu)	12430					
35	PENNAGARAM	Perumbalai	Melkadu	4630					
36	PENNAGARAM	Perumbalai	Ronipatti	14650					
37	PENNAGARAM	Manjanaickanahalli	Bodaran Kottai	5070					
38	PENNAGARAM	Manjanaickanahalli	Thinnur	31210					
39	PENNAGARAM	Chinnampalli	Kariyankattuvalavu	3790					
40	PENNAGARAM	Chinnampalli	Tholur kombai	3790					
41	PENNAGARAM	Kalappampadi	Ondikottai	18660					
42	PENNAGARAM	Arakasanahalli	Palikadu	6260					
43	PENNAGARAM	Arakasanahalli	Mettukalkombai	4820					
44	PENNAGARAM	Gendayanahalli	Pudukadu	6260					
45	PENNAGARAM	Gendayanahalli	Ayamarathupatti	12430					
46	NALLAMPALLI	Indur	Pootukaran Thoppu	17780					
47	NALLAMPALLI	Indur	Athukottai[n]	3880					
48	NALLAMPALLI	Dhalavaihalli	Boyar Street	41320					
49	NALLAMPALLI	Dhalavaihalli	KONAPALLAM-H	17500					
50	NALLAMPALLI	Konangihalli	Erupalli	24700					
51	NALLAMPALLI	Konangihalli	B.Agraharam	24640					
52	NALLAMPALLI	Echanahalli	Bannaganahalli	15210					
53	NALLAMPALLI	Echanahalli	Vathivettukottai	3880					
54	NALLAMPALLI	Errabaiyanahalli	Palikadu	15210					
55	NALLAMPALLI	Errabaiyanahalli	M. S .K.Nagar	4380					
56	NALLAMPALLI	Bandahalli	Dasan Kottai	10110					
57	NALLAMPALLI	Panganatham	Chinnapangunatham	15210					
58	NALLAMPALLI	Panganatham	Kallaputtukottai	3790					
59	NALLAMPALLI	Palavadi	Ganapathi melkottai	3790					

60	NALLAMPALLI	Palavadi	Elli Kutti Kottai	5040					
61	NALLAMPALLI	Bedrahalli	KULANTHAI KOTTAI	14650					
62	NALLAMPALLI	Bedrahalli	Selvamkottai	3790					
63	NALLAMPALLI	Somenahalli	Srigalur	24700					
64	NALLAMPALLI	Somenahalli	Karattukottai	3790					
65	NALLAMPALLI	Nallampalli	S.Kodikottai	10330					
66	NALLAMPALLI	Nallampalli	Vanniyar Street	15210					
67	NALLAMPALLI	Balasangamanahalli	Eachampatti	30180					
68	NALLAMPALLI	Balasangamanahalli	Erusankottai	8830					
69	NALLAMPALLI	Balasangamanahalli	Beedikarankottai	6540					
70	NALLAMPALLI	Balasangamanahalli	Ellakkan Kottai & Perisamy Kottai	3880					
71	NALLAMPALLI	Boothanahalli	Senniampatty Kottai	3910					
72	NALLAMPALLI	Athiyaman Kottai	Periyavetu Kottai	16150					
73	NALLAMPALLI	Athiyaman Kottai	Kuppan Kottai	3880					
74	NALLAMPALLI	Athiyaman Kottai	Narasagoundanur Kottai	3880					
75	NALLAMPALLI	Laligam	Sengunthar Colony	7670					
76	NALLAMPALLI	Mittareddihalli	Kamalankottai	5790					
77	NALLAMPALLI	Mittareddihalli	Mavettukottai	3880					
78	NALLAMPALLI	Dinnahalli	Poomarathukottai	14120					
79	NALLAMPALLI	Dinnahalli	Anganampudur	15620					
80	NALLAMPALLI	A.Jettihalli	Kodiyur	19000					
81	NALLAMPALLI	A.Jettihalli	Valluvar Nagar	24700					
82	NALLAMPALLI	Thadangam	Nehru Nagar	19280					
83	NALLAMPALLI	Thadangam	Avvai Nagar	20410					
84	NALLAMPALLI	Maniyathahalli	Mekkathiyam Kottai	16000					
85	NALLAMPALLI	Maniyathahalli	Kadathikuttai	12490					
86	NALLAMPALLI	Maniyathahalli	Kadukkapattiyam Kottai	6730					
87	NALLAMPALLI	Maniyathahalli	Keel Easalpatty	11460					
88	NALLAMPALLI	Maniyathahalli	Parigam Konangi Kadu	3880					
89	NALLAMPALLI	Pagalahalli	Vettagoundankottai	4630					
90	NALLAMPALLI	Pagalahalli	Samiyar Kottai	9580					
91	NALLAMPALLI	Pagalahalli	Vinayagapuram	11460					
92	NALLAMPALLI	Palayampudur	Kamaraj Nagar	11460					
93	NALLAMPALLI	Palayampudur	Kurinji Nagar	22790					
94	NALLAMPALLI	Palayampudur	PKC Nagar	3910					
95	NALLAMPALLI	Sivadi	Kondukalpatti	9580					
96	NALLAMPALLI	Elagiri	Mattukaranur	16000					
97	NALLAMPALLI	Elagiri	Kaduthukaram Patti	17500					
98	NALLAMPALLI	Samichettipatti	Mosapulikankottai	4290					
99	NALLAMPALLI	Samichettipatti	Manthiri Goundan Kottai @ Chinnasamy Kottai	13710					
100	NALLAMPALLI	Dokkubothanahalli	Kali Goundan Kottai	3880					
101	NALLAMPALLI	Dokkubothanahalli	Marigoundankottai	3880					
102	NALLAMPALLI	Madhemangalam	Avarankattur	19410					

103	NALLAMPALLI	Madhemangalam	Kondichetti Kottai	5040					
104	NALLAMPALLI	Nagarkoodal	Sellan Kottai	9580					
105	NALLAMPALLI	Nagarkoodal	Babinamarathuhalli	8890					
106	NALLAMPALLI	Nagarkoodal	Pereyannan Kottai [n]	3880					
107	NALLAMPALLI	Narthampatti	Narthampatty	87340					
108	NALLAMPALLI	Narthampatti	Senniampatty	22720					
109	NALLAMPALLI	Narthampatti	Thammanampatty	29110					
110	DHARMAPURI	A.Gollahalli	Kelkottaimedu	4570					
111	DHARMAPURI	A.Gollahalli	Modakerikaverigoundan kottai	4570					
112	DHARMAPURI	Elakkiampatty	Konammal Theru	6730					
113	DHARMAPURI	Elakkiampatty	Monaiyankottai	11550					
114	DHARMAPURI	Kadagathur	Rageerikottai	9670					
115	DHARMAPURI	Kadagathur	Thoranthodi	18380					
116	DHARMAPURI	K.Naduhalli	Muthugoudenkottai	26480					
117	DHARMAPURI	Hale Dharmapuri	Errankattu Kottai	3790					
118	DHARMAPURI	Adagapadi	Subramanian Nagar	8920					
119	DHARMAPURI	Adagapadi	Sekkarapatty	46670					
120	DHARMAPURI	Sogathur	Annaisathiyanager	16470					
121	DHARMAPURI	Sogathur	Attukaranpatty	35370					
122	DHARMAPURI	Kuppur	Ammasikottai	4540					
123	DHARMAPURI	Kondampatty	Puliampatty Chinnathambi	3880					
124	DHARMAPURI	Kondampatty	Bagayankottai	7670					
125	DHARMAPURI	Krishnapuram	Krishnapuram	66270					
126	DHARMAPURI	Andihalli	Melandihalli	11330					
127	DHARMAPURI	Andihalli	Naicken Kottai	13370					
128	DHARMAPURI	Andihalli	Muniship Kottai	3040					
129	DHARMAPURI	Pulithikarai	Sowlur	19630					
130	DHARMAPURI	Nallasenahalli	Malaikaran Kottai	5700					
131	DHARMAPURI	Nallasenahalli	Reddipattiyar Kottai-N	5510					
132	DHARMAPURI	Ungaranahalli	Sevikottai	13370					
133	DHARMAPURI	Ungaranahalli	Kuliyar Kottai	5570					
134	DHARMAPURI	Noolahalli	Thirumalaikottai	22760					
135	DHARMAPURI	Noolahalli	Kolaikannan Kottai-N	3790					
136	DHARMAPURI	Konanginaickanahalli	Sengalmedu	6920					
137	DHARMAPURI	Semmandakuppam	S.Kottayur	38660					
138	DHARMAPURI	Vellalapatti	Pudur	6920					
139	DHARMAPURI	Vellalapatti	Rakkirian Kottai	4570					
140	DHARMAPURI	Vellalapatti	Ottiaian Kottai	3880					
141	DHARMAPURI	Mukkalnaickenpatti	Nariyankottai	13650					
142	MATHUR	Kunnathur	Kunnathur	49120					
143	MATHUR	Kunnathur	Kanda Goundan Kottai	7670					
144	MATHUR	Kunnathur	Bharathipuram	3880					
145	MATHUR	K.Paparapatti	Pachur	18396					

146	MATHUR	K.Paparapatti	Paparapatti Colony	9193					
147	MATHUR	Ramakrishnam Pathi	Kottanur	5714					
148	MATHUR	Ramakrishnam Pathi	Athaliyur	13374					
149	MATHUR	Soolakarai	Gummanur	18589					
150	MATHUR	Soolakarai	Mathan Kottai	8948					
151	MATHUR	Veerachi Kuppam	Oblinaikan Patti	7656					
152	MATHUR	Veerachi Kuppam	Thathi Naicken Patti	3875					
153	MATHUR	Anandur	Tholampathi	11438					
154	MATHUR	Anandur	Kottaiyur	11438					
155	MATHUR	Anandur	Thulasam Patti	3875					
156	MATHUR	Kattupatti	Kattupatti (Inam Kattupatti)	15656					
157	MATHUR	Kattupatti	Manal Pallam	4625					
158	MATHUR	Vani Patti	Amman Koil Pathi	25375					
159	MATHUR	Vani Patti	Bharathi nagar	4750					
160	MATHUR	Gerigepalli	Gollapatti	4969					
161	MATHUR	Gerigepalli	Gollapatti Pudur	4969					
162	MATHUR	Gerigepalli	Kanjanur	7031					
163	MATHUR	K.Ettipatti	Kalkumaran Patti	13709					
164	MATHUR	K.Ettipatti	Kamarajar vattam	3000					
165	MATHUR	Narrala Palli	Theladan Kottai	11438					
166	MATHUR	Narrala Palli	Parasanur	5531					
167	MATHUR	Salamarathu Patti	Babrganur	7656					
168	MATHUR	Salamarathu Patti	Olapatti Koot Road	8750					
169	MATHUR	Samal Patti	Nagal Patti	15219					
170	MATHUR	Samal Patti	Mottur	15219					
171	MATHUR	Antherpatty	Kondi Redy Patti	7656					
172	MATHUR	Antherpatty	Kokkarapatti	10125					
173	MATHUR	Goundanur	Sonara Halli	15094					
174	MATHUR	Goundanur	Sani Patti	13781					
175	MATHUR	Goundanur	Athipallam	16844					
176	MATHUR	Kodamanda Patti	Boyar Kottai	5781					
177	MATHUR	Kodamanda Patti	Melsandam Patti	3906					
178	MATHUR	Odda Patti	Odda Patti	19438					
179	MATHUR	Odda Patti	Mookam Patti	15219					
180	MATHUR	Vali Patti	Karuperi Koman Kottai	2000					
181	MATHUR	Vali Patti	Mariappan Kottai	9531					
182	MATHUR	Vali Patti	Salur	9563					
183	MATHUR	Bommepalli	Pulliyam Patti Puliyam Kottai	3594					
184	MATHUR	Bommepalli	Reddiyar Vattam	3594					
185	MATHUR	Kalarpathi	Puliyam Thoppu	7656					
186	MATHUR	Kalarpathi	Naganur	8813					
187	MATHUR	Kannandahalli	Geddampatti	22406					

188	MATHUR	Kannandahalli	J.Ramanathan Nagar	11406					
189	MATHUR	Kannandahalli	Solan Kottai	5781					
190	MATHUR	Mathur	Soodhathan Kottai	9563					
191	MATHUR	Mathur	Chettiyappan Nagar	6219					
192	MATHUR	Nagampatti	Pallathur	15875					
193	MATHUR	Nagampatti	Nagam Patti Boyar Colonyq	13344					
194	MATHUR	Sivampatti	Pandavar Kottai	8156					
195	MATHUR	Sivampatti	Krishnavaram	7875					
196	MATHUR	Sivampatti	Muthu Nagar	3875					
197	MATHUR	Sivampatti	Kutti Naikan Kottai	3875					
198	UTHAGARAI	Genga Piram Patty	Kamarajnagar	9580					
199	UTHAGARAI	Genga Piram Patty	G. Pudur	5980					
200	UTHAGARAI	Kondam Patty	Sasanur	8420					
201	UTHAGARAI	Maram Patty	Attukaran Kottai	5040					
202	UTHAGARAI	Maram Patty	Maram Patty	17530					
203	UTHAGARAI	Reddi Patty	Rama Boyan Kottai	3875					
204	UTHAGARAI	Reddi Patty	Thippam Patty	8406					
205	UTHAGARAI	Uppara Patty	Govindaraja Nagar	14870					
206	UTHAGARAI	Uppara Patty	Chinna Kannathur	11270					
207	UTHAGARAI	Venkatathampatty	Solaka Patty	17656					
208	UTHAGARAI	Athi Padi	Rama Goundddanur	3160					
209	UTHAGARAI	Athi Padi	Elavam Paadi	14460					
210	UTHAGARAI	Mittapalli	Samagoundan Valasai	11830					
211	UTHAGARAI	Mittapalli	Ramanaicken Patty	6580					
212	UTHAGARAI	Moonram Patty	Bommadasam Patty	17060					
213	UTHAGARAI	Moonram Patty	Kutlanur	8420					
214	UTHAGARAI	Nadupatty	Nadupatty	24570					
215	UTHAGARAI	Naickanur	Naickanur H	7344					
216	UTHAGARAI	Singara Pettai	Anna Nagar	9580					
217	UTHAGARAI	Eggur	Indira Nagar	3880					
218	UTHAGARAI	Govindapuram	Kommam Pattu	22790					
219	UTHAGARAI	Govindapuram	Gadagsanur	7670					
220	UTHAGARAI	Keelmathur	Andiyuran Kottai	7670					
221	UTHAGARAI	Keelmathur	Makkan Kottai	4290					
222	UTHAGARAI	Maganoor Patty	Visuvasam Patty	34969					
223	UTHAGARAI	Maganoor Patty	Patlan Kottai	10710					
224	UTHAGARAI	Periyathallapady	Gittam Patty	8420					
225	UTHAGARAI	Kadavani	Nalla Goundanur	12375					
226	UTHAGARAI	Kadavani	M.G.R.Nagar	7094					
227	UTHAGARAI	Kara Pattu	Chinnasamy Nagar	3880					
228	UTHAGARAI	Karumanda Pathy	Kasi Rajan Kottai	3880					
229	UTHAGARAI	Katteri	Meyyandi Patty	13370					
230	UTHAGARAI	Keel Kuppam	Pulliyam Patty	5790					
231	UTHAGARAI	Moogileri	Kottarapatty	12620					

232	UTHAGARAI	Nochi Patty	N.Vellala Patty	18250					
233	UTHAGARAI	Nochi Patty	Kallur	27410					
234	UTHAGARAI	Pavakkal	Suraakkal	5790					
235	UTHAGARAI	Pavakkal	Nallavam Patty	19000					
236	UTHAGARAI	Pudur Punganai	Ponnagarapatti	2790					
237	UTHAGARAI	Chadra Patty	Therthagiri Valasai	6920					
238	UTHAGARAI	Chadra Patty	Alagu Malai	4440					
239	UTHAGARAI	Kallavi	Gurumans Kottai	7820					
240	UTHAGARAI	Mettu thangal	Pachanam Patty	15250					
241	UTHAGARAI	Veerana Kuppam	Velam Patty	27370					
242	UTHAGARAI	Veerana Kuppam	Kamaraj Nagar	6130					
243	UTHAGARAI	PeriyaKottaKulam	Sittu Kottai	3880					
244	UTHAGARAI	PeriyaKottaKulam	Goundarkottai N	4290					
245	UTHAGARAI	Thiruvana Patty	Periya Kamachi Patty	4820					
246	UTHAGARAI	Thiruvana Patty	Yasunathar vattam	4969					
247	UTHAGARAI	Bada Palli	Periyaa Kanakam Patty	17160					
248	UTHAGARAI	Bada Palli	Gundalnaduvu	8830					
249	UTHAGARAI	Vella Kuttai	Maniyam Nagar	4670					

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.

Tenderer

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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 Sl.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 contractor's 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 privacy of contract nor any employer-employee relation with them.

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Chief Engineer, TWAD Board, Vellore

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

Item No.	Description of Items	Quantity	Unit
1	Tools & Tackles		
	Rings Spanner set 6 to 32	2	Nos
	DE Spanner Set 6 to 32	2	Nos
	Pipe Wrench 24"	2	Nos
	Pipe Wrench 14"	2	Nos
	Electrical Air Blower	1	Nos
	12" Screw Spanner	2	Nos
	15" Screw Spanner	2	Nos
	Connector Screw driver 901	2	Nos
	200mm Screw Driver 825	2	Nos
	300mm Screw Driver 829	2	Nos
	400mm Screw Driver 930	2	Nos
	200mm Cutting Plier	2	Nos
	800gm Ball Pane Hammer with Handle	2	Nos
2	Rubber Gasket		
	200mm dia NP4	25	Nos
	250mm dia NP4	25	Nos
	350mm dia NP4	25	Nos
	400mm dia NP4	25	Nos
	450mm dia NP4	25	Nos
	500mm dia NP4	25	Nos

3	Manhole Cover 60 X 60 cm (heavy duty) with frame	10	Nos
4	GI Pipe		
	50 mm	50	M
5	Gun Metal Valves		
a	40mm	5	Nos
b	50mm	5	Nos
c	65mm	5	Nos
d	80mm	5	Nos
e	NRV 50mm	2	Nos
f	NRV 65mm	2	Nos
6	Bolt & Nuts		
a	M16 X 65 to 90 mm Long	200	Kgs
b	M20 X 90 to 120 mm Long	200	Kgs
7	HDPE Specials		
	90° Bend		
	63mm PN 8	30	Nos
	75mm PN 8	30	Nos
	90mm PN 8	20	Nos
	110mm PN 8	20	Nos
	140mm PN 8	10	Nos
	160mm PN 8	10	Nos
	180mm PN 8	10	Nos
	200mm PN 8	10	Nos

	HDPE Equal Tee		
	63mm PN 8	15	Nos
	75mm PN 8	15	Nos
	90mm PN 8	15	Nos
	110mm PN 8	15	Nos
	140mm PN 8	13	Nos
	160mm PN 8	10	Nos
	180mm PN 8	5	Nos
	200mm PN 8	5	Nos
8	Rechlorination Material Spares		
a	Rubber Washer for Glass tube	30	Nos
b	32mm HDPE Pipe Threaded Coupler	7	Nos
c	32mm HDPE Pipe Threaded (L) Connector	8	Nos
d	32mm HDPE Pipe Threaded (T) Connector	7	Nos
e	20 NB - CS Ball Valve Set	10	Nos
f	Chlorine Testing Kit	6	Nos
g	Rubber gasket for Check valve	15	Nos
h	Additional Check Valve	10	Nos
i	Vaccum gauge Per Chlorinator	10	Nos
j	Pressure Reducing Valve Spares	10	Nos
k	5/8 " lead Washer	50	Nos
l	Flexible Hose Copper Connector	5	Nos
m	Glass Tube & Float 500 Gms/hr	2	Nos
n	Glass Tube & Float 1 Kg/Hr	4	Nos

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o	Glass Tube & Float 200 Gms/Hr	4	Nos
p	Chlorine Leak Detector (Digital Unit)	3	Nos
q	Chlorine Pressure Reducing Valve	1	Nos
r	Spares for Pressure Relief Valve	12	Nos
9	Valve Spares		
a	20 mm SAV Ball, Gasket & Nipple	75	Nos
b	40 mm SAV Ball, Gasket & Nipple	75	Nos
c	40 mm DAV Ball & Gasket	25	Nos
d	50 mm DAV Ball, Gasket & Nipple	12	Nos
e	Gland Rope for Sluice Valve upto 10mm dia	200	RMT
f	Gland Rope for Sluice Valve for above 20mm dia	125	RMT
g	Shutter Plate for 50mm Sluice Valve	25	Nos
h	Spindle Rod for 50mm Sluice Valve	100	Nos
i	Bush for 50mm Sluice Valve	50	Nos
10	Flow Control valve Spare		
	40mm Dia OHT FCV Plug Set (Nylon) with O ring	100	Nos
11	Spares for Water Meter		
a	Entire Measuring Insert (Except Body) - 20mm	4	Nos
b	Entire Measuring Insert (Except Body) - 50mm	4	Nos
c	Entire Measuring Insert (Except Body) - 100mm	2	Nos
d	Impeller		
	50mm	15	Nos
	100mm	7	Nos

	eBevel Wheel Magnet Combination		
	50mm	17	Nos
	100mm	7	Nos
	fBottom assembly		
	50mm	17	Nos
	100mm	7	Nos
	gTotaliser		
	50mm	15	Nos
	100mm	7	Nos
	hTop Cover Set with lid		
	50mm	17	Nos
	100mm	7	Nos
12	Battery for 30 KVA Genset (12V/120AH)	2	Nos

B. Electrical Spares

Item No.	Description of Items	Qty	Unit
1	100 W Incandescent Bulbs	131	Nos
2	40 W Fluorescent lamp with ISI mark	150	Nos
3	70 W Sodium Vapour Lamp	15	Nos
4	150 W Sodium Vapour Lamp	10	Nos
5	Starter for 40 W Tube Light	100	Nos
6	Copper choke for 40 W tube lights	100	Nos
7	Fuse Units		
a	32 Amps	25	Nos
b	63 Amps	10	Nos
c	200 Amps	5	Nos
8	Electrical Gloves tested to 11 KV/22 KV	5	Nos
9	Electrical Quality 6mm thick rubber mat	5	Nos
10	Spares for Panel Board		
a	No Volt Coil 220v, 3TY 7403-0APE	100	Nos
b	Single Phase Preventor VSP 3	55	Nos
c	Analog Timer 800 SD – 2.230V	15	Nos
d	On delay Timer 240v Ac (0.3 to 30m)	15	Nos
e	Three Phase Four Pole contactor (B 3TF 30-10E)	5	Nos
f	Three phase 4 pole contactor (A40-30-10)	5	Nos
g	Three phase 4 pole contactor (A26-30-10)	5	Nos
11	Four Pole change over switch unit (32A)	20	Nos
12	5 Amps 3 Pin Top	10	Nos

13	Single pole MCB 40A, 10KA	10	Nos
14	Double pole MCB 40A, 10KA	10	Nos
15	Triple pole & Neutral MCB 32A, 10KA	10	Nos
	Plug in over load Relay series		
16	upto 5 amps	20	Nos
17	5 A to 10 A	20	Nos
18	10 A to 20 A	20	Nos
19	KWH Meter for submersible panels (RISH EM 3490) Sr.no 120W1384	30	Nos
20	No volt coil for Rechlorination panels (MNX 9-40/MCX 01-04).	75	Nos
21	Insulation tape role (19 mm) Empire	100	Nos
22	Ammeter SR 65 5D/5A	50	Nos
23	Volt meter SR 65 600V-AC	50	Nos
24	ELCB 25A, 30 MA , Legrand Make	16	Nos

C. ICA Spares

Item No.	Description of Items	Qty	Unit
1	Cable Glands		
a	Cable gland suitable for 4 core 10 Sq mm UG Cable	7.00	Nos
b	Cable gland suitable for 4 core 25 Sq mm UG Cable	10.00	Nos
c	Cable gland suitable for 3 ½ core 50 Sq mm UG Cable	10.00	Nos
d	Cable gland suitable for 3 ½ core 70 Sq mm UG Cable	10.00	Nos
e	Cable gland suitable for 3 ½ core 300 Sq mm UG Cable	10.00	Nos
2	Fuse wire (Copper) 5 to 20 A	10.00	Kg
3	Conduit pipe 19mm (3/4") Heavy Gauge	75.00	RMT
4	Copper Flat (25 x 3mm)	15.00	Kg
5	PVC insulated & sheathed 3 core flat type copper cable - 2.5 sq mm	50.00	RMT
6	PVC insulated & sheathed 3 core flat type copper cable - 4 sq mm	50.00	RMT
7	1.1 KV grade 3 core 10 sqmm steel armoured aluminium Conductor cable as per IS 1554 (Part-I)	15.00	RMT
8	1.1 KV grade 3 core 70 sqmm steel armoured aluminium Conductor cable as per IS 1554 (Part-I)	15.00	RMT
9	1.1 KV grade 3 core 300 sq.mm steel armoured Copper Conductor cable as per IS 1554 (Part-I)	15.00	RMT
10	1.1 KV grade 3 1/2 core 25 sqmm steel armoured aluminium Conductor cable as per IS 1554 (Part-I)	15.00	RMT

D. Pipeline Spares

Item No.	Description of Items	Quantity	Unit
1	DI Specials		
	ALL SOCKET		
	100mm - 500 mm dia	150	Kg
	ALL FLANGE		
	100mm - 500 mm dia	150	Kg
2	HDPE Stub Ends		
	110mm Dia	5	Nos
	140mm Dia	5	Nos
	160mm Dia	5	Nos
	200mm Dia	5	Nos
	250mm Dia	5	Nos
	280mm Dia	5	Nos
	315mm Dia	5	Nos
3	32 mm PVC Pipe PN 10	200	m
4	32 mm PVC Coupler PN 10	15	Nos
5	32 mm PVC Bend PN 10	15	Nos
6	32 mm PVC Tee PN 10	15	Nos
7	32 mm GI pipe	54	m
8	Supply and Delivery of MJ Collars.		
a	100 mm	1	Nos
b	150 mm	1	Nos
c	200 mm	1	Nos
d	250 mm	1	Nos

D. Miscellaneous Spares

Item No.	Description of Items	Qty	Unit
1	25 mm Dia PVC pipe 10 KSC (Finolex)	130	m
2	25 mm Dia PVC Coupler 10 KSC	9	Nos
3	25 mm Dia PVC Elbow 10 KSC	8	Nos
4	25 mm Dia PVC Bend 10 KSC	8	Nos
5	25 mm Dia PVC Tee 10 KSC	8	Nos
6	25 mm Dia PVC End Cap 10 KSC	10	Nos
7	12 V / 90 AH Battery for 20 KVA genset	1	No
8	Fan Step Regulator 100W - 2 Module Higher Havells /Crompton/Usha /Equivalent	20	Nos
9	Supply and delivery and fixing of HDPE tank as per IS 12701 / 1996 including loading, unloading, transportation and labour charges for fixing of the GI pipes and specials for pipe connection works including cutting, threading and fixing charges etc., (1000 lit)	5	Nos
10	36 W PL lamp	30	Nos
11	Bulk Head fittings suitable for 100/60 W lamps	8	Nos
12	5 A (Flush Type) Switches	20	Nos
13	Electronic Ballast for Tube lights	19	Nos
14	Post top Lantern fittings with choke and Condenser	2	Nos
15	25 mm GI pipe	60	m
16	25 mm GI Tee	10	Nos
17	25 mm GI Coupling	10	Nos
18	25 mm GI GM Gate Valve	6	Nos
19	50mm GI pipe	8	m
20	PVC low level flushing tank with all internal fittings(wall mounting type)	8	set
21	PVC screw down tap heavy type 20 mm dia	20	Nos

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 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

Tenderer

Chief Engineer, TWAD Board, Vellore

deductions or additions thereto or the refrom 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.
- 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.

Tenderer

Chief Engineer, TWAD Board, Vellore

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

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 II

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