

Form TECH-6 Curriculum Vitae (CV)

1. General

Position Title and No.	Pipeline Engineer – International Expert (No.7)
Name of Key Expert	John GOULLEE
Name of the Firm proposing the Key Expert	SMEC International Pty. Ltd.
Date of Birth	13/03/1957
Nationality	Australian
Country of Citizenship/ Residence	Australia

2. Education:

- B.Sc. Civil Engineering – University of Cape Town (1980)
- Master's degree in Business Administration – Stellenbosch Business School (1993)

3. Employment record relevant to the assignment:

Mr. John GOULLEE is a Civil Engineer with 38-years of rich experience in various Water Transmission pipeline projects in developing and developed countries. Involving In Design and Supervision of projects in the capacity of Team Leader, Resident Engineer, Senior Pipeline Engineer including expertise in large diameter water pipelines of more than 1000mm dia of MS of 370 kms. Has worked on multilateral funded projects on FIDIC contracts. He has experience in countries such as Australia, Qatar, Oman, Kuwait, Mozambique and South Africa.

Period	Employing organization and your title/ position. Contact information for references*	Country	Summary of activities performed relevant to the Assignment
Nov 2017 to till date	Employing organization: Gauff Ing., Kampala, Uganda Position Held: Project Manager Reference: Gauff Ing. Uganda Mr Emmanuel Gigamba Uganda Manager 0752 736797	Uganda	Project: Katosi – Kampala Transmission Mains <ul style="list-style-type: none"> • The project involved 41km of 1400mm DI pipe and 11km of 700, 600 and 500mm DI, Booster station, 15 000 cum reservoir • Responsible for leading construction supervision team; Taking corrective measures for project components behind schedule; Resolving technical issues on regular basis with client for smooth running of the project
Feb '16 to Nov'17	Employing Organization: GKW Consult, Qatar Position held: Sr.Civil Engineer (<i>Pipeline</i>) Reference: GKW Consult GmbH, Christian Klein, Regional Manager Email: info@gkw-consult.com Contact: +49 621 41077-0	Qatar	Water Security with Mega Reservoirs: <ul style="list-style-type: none"> • Responsible for Overall construction supervision for reservoirs of capacity 95 MIG (360 million Ltrs); • Construction Supervision review & submit requisite reports for Large Pipe installation works of dia 1600mm • Preparation of required repair procedures and material submissions; Review compliance with contract.
Mar 14 to Jan 16	Employing Organization: Artelia Oman Position Held: Team Leader cum Pipeline Engineer Reference: Artelia Oman Jelena Zzadrovic, 6th floor, Al khuwair, Muscat, Contact: +96822005140	Oman	Consultancy Services for Construction Supervision of water Transmissions and Distribution Networks within Muscat <ul style="list-style-type: none"> • Responsible for Design Review and Construction supervision of pipeline laying of installation; Client coordination on regular basis for obtaining department level approvals; Conclusion of variation orders and resolving claims in smooth manner
Feb 06 to Feb 13	Employing Organization: Water Corp, Perth Position Held: Principal Project Manager (<i>Pipeline</i>)	Australia	1.Southern Seawater Desalination Plant (160MLD) Integrated Assets. 2. South West Yarragadee Ground Water Scheme of 160 MLD - Integrated Assets <ul style="list-style-type: none"> • Responsible for selecting a contracting strategy; Design and Supervision of all integrated facilities from desalination plant to the existing distribution system. Involved from inception to completion of contracts; Statutory and stakeholder approvals, stakeholder consultation; Tendering and tender document analysis and recommendation; internal consultation and the design management.
Jul '96 to Jun'05	Employing Organization: BINNIE BLACK & VEATCH, Redhill-UK Position Held: Senior Pipeline	Kuwait and Botswana	Project: Subiya Water Distribution Scheme <ul style="list-style-type: none"> • Construction supervision, design reviews, material submission review, weekly and monthly reporting progress monitoring, liaising with design office and Contractor and construction team.setting up QA procedures for the discipline

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Page 1 of 4

Period	Employing organization and your title/ position. Contact information for references*	Country	Summary of activities performed relevant to the Assignment
	Engineer		North South Carrier Water Project, Botswana, Africa (JBIC) <ul style="list-style-type: none"> Liaison with local authorities, Government departments; Assistance to the client for setting up operating and maintenance policies; Training of local staff.
Jun'94 to Jun'96	Employing Organization: VALIT, Cape Town Position Held: Industrial Manager	South Africa	<ul style="list-style-type: none"> Was responsible for strategic management, setting up pricing; Marketing of specialist bituminous products throughout South Africa
1989 to 1994	Employing Organization: CAPE TOWN CITY COUNCIL Position Held: Senior Civil Engineer/Resident Engineer	South Africa	Construction of the first phase of the Faure Water Treatment Works <ul style="list-style-type: none"> Responsible for contract administration; site supervision of Structural works; Architectural works; Design co-ordination on the first phase Project coordination of M&E works Glengarry Reservoir and Pipelines: Liaison with local authorities, development of an existing water network model, formulating water supply and reservoir design proposals for the City of Cape Town. Involved in design of water reticulation systems, pump station and preparation of Contract document.
1987 to 1989	Employing Organization: SELFORM, Cape Town Position Held: Construction Manager	South Africa	Supervision of the manufacture and installation of precast roof decking; Evergreen precast element retaining walls, and other precast concrete products.
1986 to 1987	Employing Organization: CIVENG, Cape Town Position Held: Contracts Manager	South Africa	Responsible for tendering; Construction of township infrastructure projects; Water reticulation, power, storm water, sewerage lines and road works
1985 to 86	Employing Organization: HILL KAPLAN SCOTT, Cape Town Position Held: Contracts Manager	South Africa	Responsible for Contract Administration, Site supervision of the construction of township infrastructure, a caravan park and Low cost houses
1982 to 84	Employing Organization: CLIFFORD HARRIS, East London Position Held: Site Inspector	South Africa	Responsible for construction for earth fill; Site works and 110km of Ogee spillway
1981 to 82	Employing Organization: NINHAM SHAND, Cape Town Position Held: Design Engineer	South Africa	Design of services; Contract Administration ; Site supervision on the reconstruction of a 1km long main road ; Township infrastructure services contract.

4. Membership in Professional Associations and Publications:

- Registered Professional Engineer (Pr. Eng.) – South Africa.
- South African Institute of Civil Engineers. (1985).
- Institute of Engineers Australia

5. Language Skills (indicate only languages in which you can work):

Language	Speaking	Reading	Writing
English	Excellent	Excellent	Excellent

6. Adequacy for the Assignment:

Detailed Tasks Assigned on Consultant's Team of Experts:

Responsible for Design management and hydraulic modelling of Distribution system for CP4 and carry the detailed design of pipelines for CP4 including preparation of technical specifications, preparation of tender documents and also involve in evaluation of the bids for CP4 in pipe installation works. Responsible for Construction Monitoring of all pipeline works in CP3 and CP4 and coordination with Team, client and the authorities at site. Monitor and review the progress of works and quality control.

Reference to Prior Work/Assignments that Best illustrates Capability to Handle the Assigned Tasks

I. Name of Project: Water Security with Mega Reservoirs

Year: Feb 2016 to Nov 2017 Location: Qatar, Middle East Client: Kharaama

Main project Features: Construction of Reservoirs of capacity 95 MIG (360 million Ltrs) and Large Pipe installations of dia 1600mm and more

Activities Performed: Responsible for Overall construction supervision for reservoirs of capacity 95 MIG (360 million Ltrs), Construction Supervision review & submit requisite reports for Large Pipe installation works of dia 1600mm Preparation

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Page 2 of 4

134 Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002. 22 Feb 19

of required repair procedures and material submissions; Review compliance with contract.

- II. Name of Project:** Consultancy Services for Construction Supervision of water Transmissions and Distribution Networks within Muscat;

Year: Mar 2014 to Jan 2016 **Location:** Oman **Client:** Ministry of Energy and Water;

Main project Features: Construction Supervision of 194km of large diameter (up to 1400mm) MS pipeline ; 9 reservoirs of various sizes to store water within the network (average size ~ 25 000 cubic meters) ; 700km of smaller diameter DI, MS, and HDPE pipeline contracts; 3 pumping stations, 6.5 kilometres of micro-tunnelling (trenchless excavation)

Activities Performed: Responsible for Design Review and Construction supervision of pipeline laying of installation; Client coordination on regular basis for obtaining department level approvals; Conclusion of variation orders and resolving claims in smooth manner

- III. Name of Project:** Construction of the Southern Seawater Integrated Assets

Year: March 09 to Feb 13, **Location:** Perth, Australia, **Client:** The Water Corporation, Perth

Main project Features: Integration works for Stage-1 of a new Seawater desalination plant of capacity 160 MLD including 30km of DN1400 mild steel cement mortar lined (MSCL) transmission pipeline, a 32ML ground level storage tank and a DN1200 regulating valve complex to integrate into the existing water supply network.

Activities Performed: Responsible for selecting a contracting strategy; Design and Supervision of all integrated facilities from desalination plant to the existing distribution system. Involved from Inception to completion of contract. Obtaining the Statutory and stakeholder approvals and consultation; Tendering and Evaluation of bids and recommendation; internal consultation and the design management.

- IV. Name of Project:** The South West Yarragadee Water Integrated Scheme

Year: Feb 06 to Feb 09 **Location:** Perth, Australia **Client:** The Water Corporation, Perth

Main project Features: 160 MLD WTP and groundwater production borefield, plus 105 km of DN1200 MSCL transmission pipeline connecting the water treatment plant into the existing IWSS network, including 25 ML water storage

Activities Performed: Responsible for the design and construction supervision, testing and charging of pipe line and Reservoir. Coordinating with various stakeholders on the interface connections.

- V. Name of Project:** Subiya Water Distribution Scheme

Year: Jul'96 to Jun'05, **Location:** Kuwait **Client:** Ministry of Electricity and Water

Main project Features: Construction supervision of 267 km of large diameter water pipelines split into three pipeline projects consisting of 57km of 800mm diameter MSCL; 100km of 1200mm diameter DI pipe; 110km of 1200mm diameter MS with PE coated pipe

Activities Performed: Responsible for contract administration and site supervision Establishing three supervision teams for management of three sites run by different contractors; day to day supervision tasks; Day to day construction supervision, design reviews, material submission review, weekly and monthly reporting, progress monitoring, liaising with design office and Contractor's design and construction team. Setting up QA procedures for the steel pipe.

- VI. Name of Project:** North South Carrier Water Project, Botswana, Africa

Year : Jul'96 to Jun'05 **Location :** Botswana, Africa **Client:** Government Authority

Main project Features: Construction of 361kms of 1000-1400mm diameter glass-reinforced plastic and steel pipes Raw water transmission including 3 No of 4.5 ML break pressure tanks; 3 pumping stations, with each having pumping capacity of 1000-1500 litres/second. Three water treatment plants with 12 MLD, 14 MLD and 92 MLD capacities. SCADA for the whole project; Two command centres for the SCADA system; 132km of 100mm uPVC duct, chambers and fibre optic cable

Activities Performed: Design Review, Supervision and Commissioning of pipelines; Liaison with local authorities, Government departments; Assistance to the client for setting up operating and maintenance policies.

- VII. Name of Project:** Construction of the first phase of the Faure Water Treatment Works

Year: 1989 to 1994 **Location:** Cape Town, South Africa **Client:** Cape Town City Council

Main project Features: Augmentation of 36 Km pipeline which included Water Treatment plant of capacity 175 MLD

Activities Performed: Responsible for contract administration; site supervision of Structural works; Architectural works; Design co-ordination and Project Coordination

- VIII. Name of Project:** Glengarry Reservoir and Pipelines

Year: 1989 to 1994 **Location :** Cape Town, South Africa **Client :** Cape Town City Council

Main project Features: Construction of and 22kms of 1000mm – 1825mm diameter cement-mortar lined steel pipeline including a reservoir of capacity 149.7 ML

Activities Performed : Construction supervision ; Liaison with local authorities; Development of an existing water network model Formulating water supply and reservoir design proposals for the City of Cape Town; Design of water reticulation systems, a pump station and Contract documentation



189

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SMEC International Pty Ltd - SMEC (India) - NJS Engineers India - Tata Consulting Engineers India Consortium

Page 3 of 4

Assistant Contracts Engineer
135 C.M.W.S.S. Board
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7. Certification:

I, the undersigned, certify to the best of my knowledge and belief that:

- (i) this CV correctly describes my qualifications and my experience;
- (ii) In the absence of medical incapacity, I will undertake this assignment for the duration and in terms of the inputs specified for me in the Expert Schedule in Form TECH-7 provided team mobilization takes place within the validity of this proposal or any agreed extension thereof;
- (iii) I am committed to undertake the assignment within the validity of Proposal;
- (iv) I am not part of the team who wrote the terms of reference for this consulting services assignment;
- (v) I am, pursuant to Clauses 3 and 4 of the ITC, eligible for engagement.

I understand that any misstatement described herein may lead to my disqualification or dismissal, if engaged.

Signature of Key Expert or authorized representative of the firm

Date: 08/03/2019

Full name of authorized representative: Mr. Gaurav Kumar Srivastava



Form TECH-6 Curriculum Vitae (CV)

1. General

Position Title and No.	Senior Pipeline Engineer - Local Expert- (No.8)
Name of Key Expert	Nagesh Chinnam
Name of Firm proposing the key expert	TATA Consulting Engineers Limited
Date of Birth:	10/08/1979
Nationality	Indian
Country of Citizenship / Residence	India

2. Education:

- Master of Technology in Environmental & Management Engineering from Indian Institute of Technology (IIT), Kanpur (2005)
- Bachelor of Civil Engineering from Nagarjuna University (2002)

3. Employment record relevant to the assignment:

Mr Nagesh Chinnam is Environmental / Civil Engineer with more than 13 years of Professional Experience in the field of environmental engineering and worked for various water supply and sewerage projects. His responsibilities includes preparation of the inception report, site visits, studying of existing water supply pattern, identification of strengthening requirements and tentative DMAs, Hydraulic design of raw water and clear water transmission mains, Designing of pump houses, rising mains, Preparation of BOQ, preparation of GFC (Good for construction) of water supply networks etc. He has also worked in various Bilateral/ Multi-Lateral funding projects like JICA, ADB, World Bank in India.

Period	Employing organization and your title/position. Contact information for references	Country	Summary of activities performed relevant to the Assignment
December 2014 to till date	Employing organization: M/s. TATA Consulting Engineers Limited; Bangalore. Position Held: "Senior Manager-Civil" Reference: Mr. G N Virupaksha (Senior General Manager-TCE) Contact: 9341602291 Email: gnvirupaksha@tce.co.in	India	Major Projects: <ul style="list-style-type: none"> PMC services for work of providing water supply system to 110 villages of BBMP and UFW reduction in core area and construction and rehabilitation of GLR in Malleswaram, Bangalore. Upscaling of Up scaling of 24x7 Water Supply Scheme to Hubballi Dharwad City under KUWSMP. Conducting Water and Energy Audit Study in the ULBs of Andhra Pradesh – Package 3 – Guntur, Vijayawada and Machilipatnam ULBs. Draft feasibility report for implementation of Smart and Sustainable solutions for efficient management of water network in North division of Bangalore. Design and construction supervision consultancy for implementation of water supply and Under Ground Drainage in (5 ULBS) Mahalingapura, Teredal, Mudagal, Kudachi and Shiralkoppa. Actively involving in management of above infrastructure projects particularly in preparation of DPRs and cost estimate based on the client's observations/comment, preparation of cost estimate as per the revised designs and drawings, tender documents, co-ordination with client and attending the project review meetings, technical support during project implementation.
June 2010 to November 2014	Employing organization: STUP Consultants Pvt. Ltd. Position Held: "Assistant Engineer" to "Senior Engineer"	India	Major Projects: <ul style="list-style-type: none"> Improvement and Revamping of existing water supply, transmission and distribution network under Nangloi Water Treatment Plant Design and Supervision Consultancy Services Package-II, Kumaun Region. Involved in Preparation of BOQ and maintenance of vendor records and tender documents and technical evaluation of the Bids and review of contractor's drawings. Periodic visits to project site, attending project review meetings, technical support during project implementation Verification of contract running bills as per the contract requirement and project progress.

November 2009 to May 2010	Employing organization: SHAH Technical Consultant Pvt. Ltd Position Held: "Assistant Design Engineer"	India	Major Projects: <ul style="list-style-type: none"> Hogenakkal Water Supply and Fluorosis Mitigation Project Responsible for design of the water Distribution systems, preparation of L-sections and preparation of Bill of quantities and Cost estimates and Technical and Financial evaluation of the Bids.
March 2006 to October 2009	Employing organization: Nagarjuna Construction Company Ltd. Position Held: "Assistant Engineer"	India	Major Projects: <ul style="list-style-type: none"> Surveying, Planning, Designing, Delivery, Erection & Construction of Civil, Electrical & Mechanical works including all allied & related works for the surface water-based supply scheme for Arsenic affected areas of Nadia District. W.B Process Design and layout Preparations for CPWS Scheme to Balkonda & 108 other habitations in Nizamabad Dt. A.P. Involved in Study of survey maps, Geo-technical, Meteorological reports of the settlements. Detailed Engineering for process and hydraulic designs for WTPs with tube settlers with preparation of Bill of Quantities for the client's verification and approvals. Involved in assisting the project execution team for the procuring the materials and equipment in compliance to the tender requirements. Preparation of daily, weekly and monthly progress reports and labour management.
From August 2005 to February 2006	Employing organization: Indian Institute of Technology Position Held: Project Associate		Involved in aerosol and gases sampling and performing the chemical analysis of collected samples to identify the Source of their origin and to find their effect on radioactive forcing, as a part of work assigned under ISRO Geo Bio Sphere Land Campaign –II programme.

4. Membership in Professional Associations and Publications: Nil

5. Language Skills (indicate only languages in which you can work):

Languages	Speaking	Reading	Writing
English	Excellent	Excellent	Excellent
Hindi	Excellent	Excellent	Excellent
Telugu	Excellent	Excellent	Excellent
Tamil	-	-	Not Fluent

6. Adequacy for the Assignment:

Detailed Tasks Assigned on Consultant's Team of Experts:

- Shall conduct detailed design in CP 4 with Professional A11
- Shall assist Project Manager in communication with the Client and all other relevant local authorities
- Shall supervise pipe installation works in CP 3 and CP 4 with Professional A11

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks:

I. Name of Project: **PMC services for work of providing water supply system to 110 villages of BBMP and UFW reduction in core area and construction and rehabilitation of GLR in Malleswaram, Bangalore**

Year: June 2015 to Ongoing Location: 110 villages in and around Bangalore Client: Bangalore Water Supply & Sewerage Board (BWSSB)

Main Project Features: The project covers providing complete water supply facilities to 110 villages (in 5 zones namely Bommanahalli, Dasarahalli, Byatarayanpura, Mahadvapura, RR Nagar) of BBMP identified by utilizing the saving of the water obtained by the reduction of UFW in the core area. Scope involves revision of the DPR water supply network designs which are prepared based on the proposed GLRs and OHTs, by utilizing the existing infrastructure facilities itself to the maximum extent with minimum pumping requirement.

Position Held: Senior Manager

Activities Performed: Study of existing base line information of the project area, Site visits and data collection, review of present and future proposed water infrastructure facilities, identification of possible existing sources based on the revised scope of project, review of the survey drawing submitted by the contractors, projection of water demand based on the actual household details received, preparation of GFC (Good for construction) of water supply network with DMA concept for the execution purpose which can accommodate both design criteria i.e. with respect to existing GLRs and as well as future proposed infrastructure facilities. The total length of Distribution network designed and drawings released for construction in Bommanahalli zone of the project area is of 810 kms dia. ranging from 100 mm to 1422 mm. The total length of MS pipelines more than 1000mm dia. (1118 to 1422 mm) is of 16.54 Kms.

II. Name of Project: Upscaling of Up scaling of 24x7 Water Supply Scheme to Hubballi Dharwad City under KUWSMP.

Year: November 2018 to Ongoing **Location:** Hubli-Dharwad, Karnataka **Client:** Karnataka Urban Infrastructure Development & Finance Corporation (KUIDFC)

Main project Features: 24x7 water supply project implemented in 8 wards of Hubballi- Dharwad on pilot basis under KUWASIP and is well accepted by the public. Present project scope includes Upscale it to remaining all wards of town under "Karnataka Urban Water Supply Modernization Project" (KUWSMP) under World Bank Funding.

Position Held: Senior Manager – Civil

Activities Performed: Review of the DPR prepared by the M/s Tata Consulting Engineers Ltd. in the year 2012 for the implementation of 24X7 water supply to the entire Hubli-Dharwad towns. Updating the DPR, Cost estimates and drawings as per the present demand by considering the water supply developments/improvements happened in ULB after the year 2012 to till the date. Assessment of source reliability/dependability, analysis of demand supply gap, new proposals for the improvement of bulk water supply system, Rezoning of the project area based on demand, pumping facilities available with cost optimization in term of both CAPEX as well OPEX. **Hydraulic design of raw water and clear water transmission mains.** Coordination with client, attending the review meetings and managing/guiding entire in-house project team. The total length of Distribution network MS/DI/HDPE is of 1621 kms dia. ranging from 63mm to 711mm. The total length of raw water and clear water transmission mains together is 1219 mm dia. MS pipeline for a length of 48.4 Kms.

III. Name of Project: Conducting Water and Energy Audit Study in the ULBs of Andhra Pradesh – Package 3 – Guntur, Vijayawada and Machilipatanam ULBs

Year: From July 2015 to September 2016 **Location:** Guntur, Vijayawada and Machilipatanam, Andhra Pradesh **Client:** Public Health & Municipal Engineering Department, Government of Andhra Pradesh

Main Project Features: The Water Audit from Source to distribution reservoirs to know the Transmission and Distribution losses which also involves identifying physical losses in the pipeline, valves, WTPs, reservoirs and pumping stations; flow measurement at different strategic points of water supply system. Energy audit of pumps, blowers and motors in pumping stations and Treatment plants and identification of two DMAs in each ULB for the assessment of distribution losses and UFW/NRW.

Position Held: Manager - Civil

Activities Performed: Involved in the site visits and collection of the existing information i.e. Reports, drawings and Maps etc about the water supply scheme within Municipal boundary of all the 3 ULBs and data validation. Meetings with the respective Client/ Nodal officers of the ULBs for the collection of existing DPRs, existing schemes details right from sources to the distribution system of each ULB. The data collected is being verified and validated and data gap (if any) are being recorded and discussed with the client, Preparation of the inception report based on the information gathered through the site visits, discussions held with client/nodal officers and O & M staff and data collected from them. Attending the key meetings and make the presentations to the client on the reports submitted and get the approvals. Involved in the field activities i.e. flow measurements and energy auditing. **Preparation and submission of Draft DPRs based on the field observations and their analysis.**

IV. Name of Project: Draft feasibility report for implementation of Smart and Sustainable solutions for efficient management of water network in North division of Bangalore

Year: June 2015 to Ongoing **Location:** Bangalore **Client:** BWSSB

Main project Features: The main objective of the project is identification of tentative DMAs in North zone of BWSSB for smart management of distribution network system as well as reduction of UFW by using latest technology and implementation of SCADA works.

Position Held: Senior Manager

Activities Performed: Data collection i.e. reports and relevant drawings, site visits, discussion with O & M staff, studying of existing water supply pattern, identification of strengthening requirements and tentative DMAs, Preparation of BOQ.

V. Name of Project: Design and construction supervision consultancy for implementation of water supply and Under Ground Drainage in (5 ULBS) Mahalingapura, Teredal, Mudagal, Kudachi and Shiralkoppa

Year: January 2015 to July 2015 **Location:** Karnataka **Client:** KUIDFC

Main Project Features: The primary objective of the Project is to provide adequate and potable water supply and efficient underground drainage system in the selected ULBs to promote social and economical development by focusing on environmental and sanitation improvement.

Position Held: Senior Manager

Activities Performed: Involved in review and revision of draft DPRs based on the client's observations/comments, revision of water supply zones based on the revised demands, designing of pumping and gravity mains, hydraulic modeling of the distribution network, preparation of BOQ, co-ordination with client and attending the project review meetings, preparation of bid documents and technical support during project implementation. The total length of raw/clear water pumping mains 150-350 dia DI/MS pipe of 32.04km. The total length of Distribution network DI/HDPE is of 191.78 kms dia. ranging from 75mm to 350mm.

VI. Name of Project: Improvement and Revamping of existing water supply, transmission and distribution network under Nangloi Water Treatment Plant

Year: From June 2011 to November 2014 **Location:** New Delhi **Client:** Delhi Jal Board

Main Project Features: Providing 24X7 water supply, Reduction in NRW/UFW, 100% coverage of water supply network, improved water quality and energy conservation etc.

Position Held: Senior Design Engineer / Senior Consultant

Activities Performed: As a senior design engineer involved in study of existing base line information of the project area, NRW analysis of the identified District Metered areas (DMAs), Flow and Pressure measurement by using Ultrasonic Flow Meter, Demand Distribution, Population and demand forecast for future years, Zoning of water supply areas and DMA's generation, Mathematical Hydraulic Modelling on WaterGEMS v8i platform, Phasing of the project Infrastructure facilities during the design stage in order to fill up the gap between future demand and supply and design of UGRs with pumping facilities, water transmission mains and distribution networks and preparation of DPR and tender documents and technical evaluation of the Bids and review of contractor's designs and drawings. Periodic visits to project site, attending project review meetings, technical support during project implementation. The total length of MS/DI/HDPE Pipeline distribution network proposed under the project area is 1270 kms dia ranging from 110mm to 1100 mm. The total length of clear water transmission main designed is 9.6 km dia DI/MS Pipe line ranging from 400mm to 900mm dia.

VII. Name of Project: *Design and Supervision Consultancy Services Package-II, Kumaun Region*

Year: June 2010 – May 2011 Location: Haldwani, Uttarakhand Client: Uttarakhand Jal Nigam

Main Project Features: The Project is a proposed investment Program of UUSDIP, assisted by the "Asian Development Bank (ADB)" in Uttarakhand which comprising of providing design and supervision consultancy services in the areas of water supply, sewerage and slum improvement for 13 towns (Kumaun region).

Position Held: Assistant Design Engineer

Activities Performed:

- Data collection & Study of existing Water Supply System of Haldwani for Augmentation of existing Network.
- Analysis of zone and ward wise water demands based on the population.
- Designing of pump houses, rising mains of dia ranging from 250-350mm dia DI for a length of 16km and storage reservoirs.
- Involved in process and hydraulic designing of 34 MLD STP for Haldwani Town.
- Preparation of master plans for water supply for Haldwani.
- Preparation of Detail project report for 34 MLD Sewerage Treatment Plant at Haldwani.
- Periodic visits to project site, attending project review meetings, technical support during project implementation.

VIII. Name of Project: *Hogenakkal Water Supply and Fluorosis Mitigation Project*

Year: November 2009 to May 2010 Location: Dharmapuri, Tamil Nadu Client: TWAD Board

Main Project Features: The Hogenakkal Water Supply and Fluorosis Mitigation Project which is implementing by TWAD Board, Tamil Nadu, India with assistance from Japan International Co-operation Agency (JICA) in Dharmapuri and Krishnagiri Districts of Tamil Nadu. The Project scope includes "Consultancy Services for planning, designing, construction and implementation of Water Distribution system, Booster pumping stations, and related works etc. including estimation, preparation of tender documents, evaluation of tenders etc., and providing project management services, Contractor's documents and drawings review and site supervision of the works etc.

Position Held: Assistant Design Engineer

Activities Performed: Responsible for design of the feeder mains, internal transmission mains and water Distribution systems for length of 1570 km approx. in Package-III covering 4.4 lakhs population in three unions viz., Morappur, Harur and Papireddypatti, 5 Town Panchayat viz., B. Mallapuram, Harur, Kadathur, Kambainallur and Pappireddypatti, preparation of L-sections and preparation of reports and Technical and Financial evaluation of the Bids.

IX. Name of Project: *Surveying, Planning, Designing, Delivery, Erection & Construction of Civil, Electrical & Mechanical works including all allied & related works for the surface water-based Water supply scheme for Arsenic affected areas of Nadia District. W.B*

Year: March 2006 to November 2009 Location: Hyderabad Client: PHED West Bengal

Position Held: Assistant Engineer

Main project Features: The project scope involves providing the surface water based potable water supply scheme to the various arsenic affected areas in the Nadia district in West Bengal in lieu of arsenic rich ground water system

Activities Performed: Involved in Study of survey maps, Geo-technical, Meteorological reports of the settlements. Adequacy analysis of existing water system, design of water distribution networks for a length of 860km approx. PVC/DI pipe of dia ranging from 50mm to 450mm and Detailed Engineering for process and hydraulic designs for 3Nos WTPs with tube settlers

X. Name of Project: *Process Design and layout Preparations for CPWS Scheme to Balkonda & 108 other habitations in Nizamabad Dt. A.P*

Year: March 2006 to November 2009 Location: Hyderabad Client: PHMD, Andhra pradesh

Position Held: Assistant Engineer

Main project Features: The project scope involves providing the complete water supply scheme from Intake well to the distribution network with house service connections to Balkonda and other 108 habitations in Nizamabad district

Activities performed: Responsible for detail design of water distribution networks for a length of 525km approx dia ranging from 63mm to 400mm various habitations, preparation of L-sections and preparation of reports

XI. Name of Project: *Process Design and layout Preparations for CPWS Scheme to Balkonda & 108 other habitations in Nizamabad Dt. A.P*

Year: March 2006 to November 2009 **Location:** Hyderabad **Client:** Maharashtra Airport Development Company, Nagpur
Main Project Features: The project scope involves design, built, operate and maintain of 20.64 MLD water treatment plant for the Mihan Airport, Nagpur.

Position Held: Assistant Engineer

Activities Performed: Involved in WTP designing comprising the units Cascade aerator, Raw water channel with Parshall flume, Flash Mixer, Clariflocculator, Rapid Sand filters with overhead tank, Chlorination Tank, Chemical House Building with Hydraulic design calculations.

Other Responsibilities/activities performed (in multiple pre-qualifications, bid submissions and projects):

- Preparation of Process and Hydraulic Designs, Formulation of Layout of Water Treatment Plants and Sewage Treatment Plants.
- Preparation of Pre-Bid or preliminary designs & drawings for tendering purposes.
- Produce design calculations, specifications, drawings and other documents which meet specified EPC contract requirements.
- Able to communicate with client and design consultants in getting design inputs.
- Review the ITB (Invitation to Bid) documents submitted in the proposals stage, issue inquiry requisitions, review techno-commercial vendor offers.
- Preparing technical bids / proposals, along with handling pre-tendering / tender / contract documentation.
- Provide necessary technical information for procurement of equipment in compliance with tender specifications/data sheets and within budgeted man-hour and project schedules.
- Participate in meetings with client and vendor representatives, clarify and ensure vendor specifications meet with client requirements in a cost effective manner.

7. Certification:

I, the undersigned, certify to the best of my knowledge and belief that:

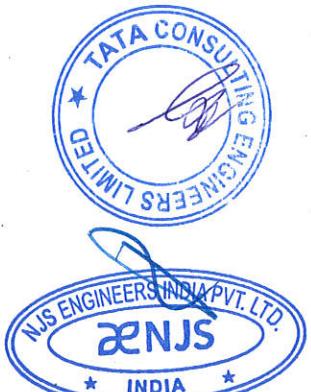
- (i) this CV correctly describes my qualifications and my experience;
- (ii) In the absence of medical incapacity, I will undertake this assignment for the duration and in terms of the inputs specified for me in the Expert Schedule in Form TECH-7 provided team mobilization takes place within the validity of this proposal or any agreed extension thereof;
- (iii) I am committed to undertake the assignment within the validity of Proposal;
- (iv) I am not part of the team who wrote the terms of reference for this consulting services assignment;
- (v) I am, pursuant to Clauses 3 and 4 of the ITC, eligible for engagement.

I understand that any misstatement described herein may lead to my disqualification or dismissal, if engaged.

Signature of Key Expert or authorized representative of the firm

Date: 10/10/2019

Full name of authorized representative: Mr. Gaurav Kumar Srivastava



Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.

Form TECH-6 Curriculum Vitae (CV)

1. General

Position Title and No.	Contract Specialist (Desal) (International Expert) (No.9)
Name of Key Expert	Roderick Mackenzie
Name of the Firm proposing the Key Expert	SMEC International Pty. Ltd.
Date of Birth	15/01/1964
Nationality	British
Country of Citizenship/ Residence	England

2. Education:

- Bachelor of Engineering (Hons), Civil, Heriot Watt University, Edinburgh, UK in 1988
- Graduate Diploma in Law, The University of Birmingham, UK in 2003
- Postgraduate Diploma in Legal Practice, Law, Oxford Institute of Legal Practice, Oxford University, UK in 2004

3. Employment record relevant to the assignment:

Roderick Mackenzie is dual qualified as an engineer and lawyer, specialising in contract drafting and negotiation for major infrastructure projects with over 30 years of experience in developed and developing countries. He has extensive experience in leading the procurement of PPP projects (DBO, BOOT etc.) and has specific experience on negotiating high capital value contracts for major sea water reverse osmosis projects. He is familiar with various precedent forms including the FIDIC suite of contracts and SBDs of various funding agencies.

Period	Employing organization and your title/ position. Contact information for references	Country	Summary of activities performed relevant to the Assignment
2016 to till date	Employing Organization: Self Employed Position held: Principal Reference: Client confidential	United Kingdom, Kyrgyz Republic & United Arab Emirates	Practising on own account on a variety of projects in the Kyrgyz Republic, United Arab Emirates and UK, subject to legal privilege and confidentiality. Responsibilities included production of investment memoranda, anti-money laundering know-your-client and counter terrorism funding clearances to Financial Action Task Force international anti-corruption standards.
01/2016 to .07/2016	Employing Organization: Self Employed Position held: Lead Legal Advisor Reference: Mr Haydn Tyrell Chief Executive Officer Aqualyng haydn.tyrell@aqualyng.com Tel: +61 488 288 433	United Arab Emirates	45 MIGD capacity Sea Water Reverse Osmosis desalination plant in Umm al Quwain, UAE Public Private Partnership with operations and maintenance by the private sector. <ul style="list-style-type: none"> Overall management responsibility for the procurement of a Contractor. Bid Documents, EOI, RFP and Bespoke Draft Project & Contract Agreements included: Project Development Agreement, Water Purchase Agreement, Payment Mechanism, Energy Supply Agreement, Land-lease Agreement, Payment Sovereign Guarantee, Parent Company Guarantees for chosen technology. Also advised on procurement anti-corruption safeguards and implications of US Foreign Corrupt Practices Act and UK Bribery Act.
12/2013 to 06/2015	Employing Organization: Asian Development Bank Position held: Team Leader Reference: Mr Marko Davila, Urban Development Specialist, Central West-Asia Regional Department, mdavila@adb.org Tel: +49 176 3574 1723	Kyrgyz Republic	Team Leader on behalf of a multilateral finance institution responsible for the design of the institutional framework for the organisation of the water sector in the Kyrgyz Republic (population 6m). <ul style="list-style-type: none"> Developed the strategy for restructuring the water sector nationally through a corporatisation model in order to improve procurement, Contract, transparency, accountability and integrity.
01/2013 to 05/2013	Employing Organization: Engility LLP on behalf of US AID and the Government of Jordan Position held: Public Private Partnerships Advisor Reference: Mr Rob Taylor, Currently Team Leader on behalf of US AID on the Nepal Energy Sector Reforms, rft10@hotmail.com	Jordan	68 MLD Aqaba sea water reverse osmosis project with operations and maintenance to be let to the private sector. <ul style="list-style-type: none"> Advised the Government of Jordan on the PPP options Kingdom-wide, including the outline business case to sustain a US \$500m multilateral structured finance investment to the water sector assets serving Amman, (population 4m) under a 15-year Contract/ lease (concession) arrangement with private sector operations and maintenance.

08/2010 to 03/2011	Employing Organization: Allen & Overy LLP Position held: Associate	United Arab Emirates and United Kingdom	450 MLD Fujairah 2 Integrated Water and Power Project. • Advised the Abu Dhabi Water and Electricity Authority on the procurement of a dissolved air filtration retrofit to the. Drafted the key provisions of a Design, Build and Operate agreement/ Contract Agreement with operations and maintenance let to the private sector for a desalination plant.
02/2010 to 08/2010	Employing Organization: Seureca Overseas LLC on behalf of the Asian Development Bank/Government of Sindh Position held: Transaction Advisor	Pakistan	Senior Transaction Advisor advising the North Sindh Urban Services Company as a newly corporatized municipal utility provider on outsourcing operations and maintenance to the private sector for service delivery.
10/2009 to 11/2009	Employing Organization: Seureca Overseas LLC Position held: Transaction Advisor	United Arab Emirates	Fujeirah's 16 MLD public private partnership wastewater treatment facility with operations and maintenance provided by the private sector. • Advised (Procurement, Contracts, etc.) UAE-based sovereign wealth fund/international operator joint venture on the secondary-market acquisition.
08/2008 to 12/2008	Employing Organization: King & Spalding (ME) LLP Position held: Associate	Ghana	60 MLD sea water reverse osmosis desalination project with private sector operations and maintenance serving the capital of Ghana. • Advised (Procurement, Contracts, etc.) Aqualyng Holdings (Dubai), a private sector developer, for the, with an emphasis on the water purchase agreement and energy pass-through costs.
04/2008 to 07/2008	Employing Organization: Ashurst (ME) LLP Position held: Associate	United Arab Emirates	Advised (Procurement, Contracts, etc.) the project company on the 100 MGID Shuweihat S2 Integrated Water and Power Project with operations and maintenance performed by the private sector on amendments to the project documents for this major desalination project.
04/2007 to 03/2008	Employing Organization: Pincent Masons LLP Position held: Associate	United Kingdom	Advised (Procurement, Contracts, etc.) Aqualyng Holdings (Oslo), in their procurement response for a 455 MLD sea water reverse osmosis desalination project serving Karachi, Pakistan (population 13m) by direct negotiation. Provided drafts of the Water Purchase Agreement and Energy Supply Agreement, with operations and maintenance to be undertaken by the private sector.
04/2005 to 03/2007	Employing Organization: Estech Europe Ltd/ Herbert Smith LLP Position held: Trainee Solicitor	United Kingdom	Advised on Procurement, Contracts, on a JBIC project for principle sea water risk parameters.
04/1997 to 03/2005	Employing Organization: Self Employed/Various Position Held: Consultant	Croatia Kosovo	Team Leader/Institutional Specialist, Seureca/EBRD, Rijeka Financial Operational Performance Improvement Project. Commissioner for Water, KPMG (US) LLP/US AID/ United Nations Mission in Kosovo
08/1995 to 03/1997	Employing Organization: WSP plc Position Held: Senior Engineer	Yemen	Project Manager, Eight Projects Monitoring Review. Performed post implementation evaluation for projects funded by the Japan International Cooperation Agency.
03/1993 to 07/1995	Employing Organization: Sir Alexander Gibb & Partners Position Held: Senior Engineer	Jordan	Design Team Leader, Arab Potash Project. Prepared tender documentation and contract package to let an engineer procure and construct contract under FIDIC 4 Conditions of Contract.
06/1992 to 02/1993	Employing Organization: ABB Nera AS, Oslo, Norway Position Held: Engineer	Botswana	Development of 23 microwave telecommunication towers over 1,050km of the Kalahari as part of the Okavango Microwave Telecommunications Project under FIDIC 4 Conditions of Contract.
04/1989 to 05/1992	Employing Organization: Sir Alexander Gibb & Partners Position Held: Graduate Engineer	Botswana	Resident Engineer on the Gaborone Water Treatment Works and Primary Assets Development Project administered under FIDIC 3 Conditions of Contract and funded by the World Bank.
09/1988 to 03/1989	Employing Organization: Cleveland Bridge & Engineering Company Position Held: Graduate Engineer	United Kingdom	Queen Elizabeth II Bridge Project. Dartford River Crossing Company Ltd. Design of structural steelwork on this landmark private financed project with operation and maintenance undertaken by the private sector.

143 Rockch Mackenzie

Assistant Contracts Engineer
M.W.S.S. Board
123456789

4. Membership in Professional Associations, Publications etc:

Professional Associations

- Member, International Desalination Association, USA 2009
- Solicitor of the Senior Courts of England and Wales, UK (currently non-practising) 2007
- Chartered Environmentalist ("CEnv"), Society for the Environment, UK 2004
- Member, Chartered Institution of Water & Environmental Management, UK 1997
- Chartered Engineer ("CEng"), Engineering Council, UK 1995
- Member, Institution of Civil Engineers, UK 1995

Prizes

- The Institution of Civil Engineers 'Miller Prize' for research at Heriot-Watt University, UK 1990

5. Language Skills:

Language	Speaking	Reading	Writing
English	Excellent	Excellent	Excellent

6. Adequacy for the Assignment:

Detailed Tasks Assigned on Consultant's Team of Experts:

Mr Mackenzie shall function as the Contracts Specialist. He shall review all relevant procurement requirements of JICA in detail and tailor the bid documentation to conform with their requirements based on the FIDIC Gold Book 2008. In addition the Contracts Specialist shall undertake a preliminary review of the Government of India procurement laws as they impact the bidding process and advise on "show-stoppers" and workarounds as necessary.

Reference to Prior Work/Assignments that Best illustrates Capability to Handle the Assigned Tasks

- I. Name of Project: *Um al Quwain 45 MIGD SWRO Desalination Independent Water Project Project Procurement*,
 Year: 2016 Location: United Arab Emirates Client: The Federal Electricity and Water Authority of the United Arab Emirates
Main Project Features: Procurement of FEWA's first sea water reverse osmosis project let on a project financed basis. Public Private Partnership with operations and maintenance by the private sector.
Position Held: Lead Legal Advisor (Equivalent to Contract Specialist)
Activities Performed: Coordination of all procurement activities, production of draft forms of contract, preparation of Request for Statements of Qualifications document, Pre-Qualification Report and Requests for Proposals document, all delivered on time and within budget to that stage of the procurement process.
- II. Name of Project: *68 MLD Aqaba SWRO Desalination Project, Jordan*.
 Year: 2013 Location: Jordan Client: The Ministry of Water and Irrigation, Government of Jordan
Main Project Features: The Red Sea–Dead Sea desalination project is a joint initiative to promote regional cooperation among Israel, Jordan, and the Palestinian Authority to Construction of 68 MLD Aqaba Desalination project in PPP mode.
Position Held: PPP Advisor
Activities Performed: Advised the Government of Jordan on the PPP options Kingdom-wide, including the outline business case to sustain a US \$500m multilateral structured finance investment to the water sector assets serving Amman, (population 4m) under a 15-year Contract/ lease (concession) arrangement with private sector operations and maintenance.
- III. Name of Project: *Fujairah F2 Retrofit of DAF and Design, Build and Operate Plant*.
 Year: 2010 to 2011 Location: United Arab Emirates Client: Abu Dhabi Water and Electricity Authority of the United Arab Emirates
Main Project Features: Procurement of the services of a private sector developer/operator to retro-fit a dissolved air filtration plant to the Fujairah Integrated Water and Power Project to mitigate the effects of "Red Tide." Subsequently operate the plant.
Position Held: Legal Advisor (Contracts)
Activities Performed: Drafted all provisions of the Design Build and Operate contract.
- IV. Name of Project: *Accra 60 MLD SWRO Desalination Project Procurement*
 Year: 2008 Location: Ghana Client: Aqualyng Holdings (ME) LLC
Main Project Features: Advised a private sector developer, for the 60 MLD sea water reverse osmosis desalination project with private sector operations and maintenance serving the capital of Ghana.
Position Held: Legal Advisor (Procurement, contract drafting and negotiations)
Activities Performed: Advised, with an emphasis on the water purchase agreement and energy pass-through costs.
- V. Name of Project: *Fujairah's 16 MLD public private partnership wastewater treatment facility*
 Year: 2008 Location: Fujairah/Dibba, UAE Client: Seureca Overseas LLC
Main Project Features: The Government of Fujairah plan to awarded the concession to develop, design, finance, own, operate, maintain and expand the wastewater treatment system "WWTS" for the City of Dibba and its environs as well as the WWTP for the City of Fujairah.
Position Held: Transaction Advisor

Activities Performed: Advised (Procurement, Contracts, etc.) UAE-based sovereign wealth fund/international operator joint venture on the secondary-market acquisition

VI. Name of Project: Proposed 455 MLD SWRO Desalination Project serving Karachi city, Pakistan

Year: 2007 to 2008 Location: Pakistan Client: Aqualyng Holdings (Oslo) A/S

Main Project Features: Advise in their procurement response for a (population 13m) by direct negotiation. Provided drafts of the Water Purchase Agreement and Energy Supply Agreement, with operations and maintenance to be undertaken by the private sector.

Position Held: Legal Advisor

Activities Performed: Prepared Draft agreement for Water Purchase Agreement and Energy Supply Agreement, with operations and maintenance to be undertaken by the private sector Contract under DBOT.

VII. Name of Project: Shuweihat S2 Integrated Water and Power Project

Year: 2008 Location: Abudhabi, UAE Client: Abu Dhabi Water and Electricity Authority

Main Project Features: This project located at 250 km south west of the city of Abu Dhabi, includes the construction of 1,510 MW power and 100 MIGD seawater desalination plant.

Position Held: Associate Contracts

Activities Performed: Advised (Procurement, Contracts, etc.) the project company on the 100 MIGD Shuweihat S2 Integrated Water and Power Project with operations and maintenance performed by the private sector on amendments to the project documents for this major desalination project.

7. Certification:

I, the undersigned, certify to the best of my knowledge and belief that:

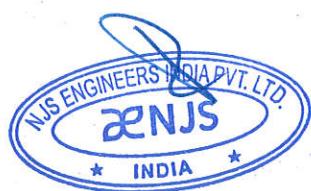
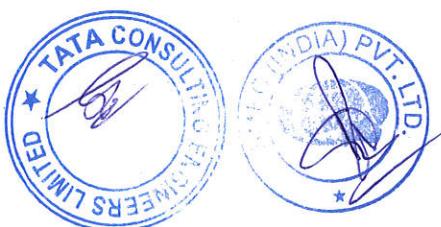
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- (ii) In the absence of medical incapacity, I will undertake this assignment for the duration and in terms of the inputs specified for me in the Expert Schedule in Form TECH-7 provided team mobilization takes place within the validity of this proposal or any agreed extension thereof;
- (iii) I am committed to undertake the assignment within the validity of Proposal;
- (iv) I am not part of the team who wrote the terms of reference for this consulting services assignment;
- (v) I am, pursuant to Clauses 3 and 4 of the ITC, eligible for engagement.

I understand that any misstatement described herein may lead to my disqualification or dismissal, if engaged.



Signature of Key Expert

Date: 24/09/2019



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Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.

Form TECH-6 Curriculum Vitae (CV)

1. General

Position Title and No.	Contract Specialist (Distribution) -International Expert (No.10)
Name of Key Expert	Tharlaok S. BHATT
Name of the Firm proposing the Key Expert	NJS Engineers India Pvt Ltd
Date of Birth	27 July, 1958
Nationality	Malaysia
Country of Citizenship/Residence	Malaysian (Australian Permanent Resident)

2. Education:

- Post Graduate in Water Engineering, Monash University, Australia, 1995
- B. Sc. in Civil Engineering, University of East London (formerly North East London Polytechnic), 1984

3. Employment record relevant to the assignment:

Tharlaok Bhatt is Post Graduate in Water Engineering from Australia and BSc -Civil Engineering from UK. He is having an overall 36 years of experience with 30 years International Experience in Water and Waste Water sector. He has handled 4 major Japanese ODA projects. He has handled some major water supply projects globally and in India including and not limited to BWSSP Phase II, Bangalore (500 MLD), Agra Water Supply Project (369 MLD), Semanggar Water Supply Project, Malaysia (318 MLD) etc.

Period	Employing organization and your title/position. Contact information for references	Country	Summary of activities performed relevant to the Assignment
2017 to Jan 2018	Employing organization: Dohwa Engineering Co. Ltd, Korea Position Held: Team Leader Reference: Mr. Lee GW Tel: +821064066642 Email: leegw@dohwa.co.kr	Nepal	<ul style="list-style-type: none"> ADB Funded Kathmandu Valley Water Supply Improvement Project Water Supply: Contract Management/ Administration, Project Management/ Planning, Design, NRW Management Construction works involved working, amongst others in the CBD area of Kathmandu City; Laying DI/HDPE/MS pipe works: L=830kms, Dia= 1400 mm including Dia=1000 mm, MS pipeline of length about 9.5km
2015 to 2016	Employing organization: CDM Smith Position Held: Team Leader Reference: Mr. Prashant Karkare Tel: +919902655755 Email: prashantk@cdmsmith.com	Nepal	
2010 to 2014	Employing organization: NJS Consultants Co., Ltd. Position Held: Team Leader	Nepal, India	Major Projects: <ul style="list-style-type: none"> JICA Funded Melamchi Water Treatment Plant, Sundarijal, Kathmandu, Nepal JICA funded Bangalore Water Supply and Sewerage Project, Phase II, India JICA Assisted Agra Water Supply Project, India
2007 to 2010	Employing organization: T.A.K. Design Consultants, Malaysia Position Held: Project Manager, Team Leader	U.A. E	Water & Waste Water: Design, supervision, quality control & contract management/ administration.
2004 to 2006	Employing organization: ErincoSdn. Bhd., Malaysia Position Held: Project Manager, Team Leader	Malaysia	Waste Water: Supervision, quality control & contract management/administration
2002 to 2004	Employing organization: NJS Consultants Co., Ltd. Position Held: Chief Resident Engineer	Sri Lanka	JICA Funded Kalu Ganga Water Supply Project for Greater Colombo, Sri Lanka Resp.: Project Management/ Planning, Design.
1996 to 2002	Employing organization: MinconsultSdn.Bhd., Malaysia Position Held: Project Manager/Team Leader	Malaysia	Water Supply: Master Plan, Feasibility Study, Design & Supervision, quality control & contract management/administration.
1990 to 1995	Employing organization: GoulburntoMurray Water, Australia Position Held: Project Manager/Team Leader	Australia	Water Supply: Contract Management / Administration, Project Management/ Planning, Design
1984 to 1990	Employing organization: MinconsultSdn.Bhd., Malaysia Position Held: Water Supply Design Engineer and Resident Engineer	Malaysia	Water Supply: Design, supervision, quality control & contract management/administration
1982 to 1983	Employing organization: Travers Morgan Consulting Engineers, UK Position Held: Design Engineer	United Kingdom	Waste Water: Design, quantity estimate and preparation of contract document of the project

4. Membership in Professional Associations and Publications:
- Member of Institution of Engineers, Australia, Member, 1991; Chartered Engineer
5. Language Skills (indicate only languages in which you can work):

Language	Speaking	Reading	Writing
English	Excellent	Excellent	Excellent
Bahasa Malaysia	Excellent	Excellent	Excellent
Hindi	Excellent	Excellent	Excellent
Tamil	Fair	Fair	Fair

6. Adequacy for the Assignment:

Detailed Tasks Assigned on Consultant's Team of Experts:

Review existing designs and specifications as prepared in study report and DPR; Prepare basis of design for all the Water Conveyance / Water Transmission WTP / WPS packages; Prepare PQ documents and provide detailed evaluation of PQ and bidder submittals; Prepare Bid document for each package considering selected basis of design and client requirements; Prepare cost estimates for comparative Assessment; Assist client in technical evaluation of bids and making recommendations on selection of contractor for each package; Direct local engineers attending the designs; Review and make recommendations to WTP designs submitted by contractors; Prepare the basic design of civil structures for the WTP GLRs packages including WPS; Prepare Bill of Quantities for sewerage and WTP / WPS work; Direct the local civil engineers attending the designs of civil works for the WTP as well as WPS facilities; Prepare Specifications works; Supervise process review during construction; Providing assessment and input during operation and maintenance – during Defect liability period.; Review and contractors' proposed O&M supervision work program and training programs for Distribution Control System; Coordinate the contractor's commissioning works; Coordinate the contractor's O&M supervision and training ; Monitor and assess the effect of training and instruct any improvement of training services if necessary

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks

I. Name of Project: **ADB Funded Kathmandu Valley Water Supply Improvement Project**

Year: Jan. 2015 – Jan 2018 Location: Kathmandu, Nepal Client: Kathmandu Upatyaka Khanepani Limited (KUKL)

Main project features: Project Cost: US\$305 million: Improvement of bulk water transmission / distribution network systems using SCADA for monitoring & control; Improvement of efficiencies, service delivery and health outcomes and quality of life for inhabitants.

Position Held: Team Leader

Activities Performed: Preparation of detailed design (6 packages) based on DMA concept, bidding documents including drawings, specifications, bills of quantities, cost estimates, tender evaluation etc. For the ongoing 14 construction contracts; Project management, coordination, project liaison and coordination including contract administration, construction management and supervision of the project; Construction works involved working, amongst others in the CBD area of Kathmandu City; Laying DI/HDPE/MS pipe works: L=830kms, Dia= 1400 mm including Dia=1000 mm, MS pipeline of length about 9.5km.

Conventional trench and pipe jacking installation methods at road crossings), installing 84,000 house connections and ensuring operational functional guarantee compliance ie NRW works limiting physical water losses to 15% using DMA concept. Leak detection/ management/control, physical loss water audit, attainment of design functional network pressure/ management activities were associated with the operational guarantee compliance. Other works included 170kms road reinstatement works with concrete asphalt finish using paving machine, 40kms of river training/erosion control works amongst others, using gabion mattress, 12 no. s elevated water tanks of 8,000m3 (largest) capacity with fair face finish, 35nos ground water development wells of more than 100m in depth using conventional drilling equipment. Setting up of GIS platform on the installed works, Design and installation of Reservoir water quality monitoring, future development/ financial plan development and implementation, Public awareness programs/ campaigns on water conservation, hygiene and network improvements, Preparation of DMA commissioning Plans, O&M Plans, System operating Plans, Design Reports, Project Completion Report.

II. Name of Project: **JICA Funded Melamchi Water Treatment Plant, Sundarijal, Kathmandu, Nepal**

Year: 2013-2014; Location: Kathmandu, Nepal; Client: Melamchi Water Supply Development Board

Main project features: Project Cost: US\$27 million; Conventional water treatment plant: Q=170 MLD; 2.9 million people of Kathmandu valley; Includes an inlet chamber, rapid mixing, flocculation-sedimentation tanks, rapid sand filter, backwash, backwash water recovery tank, clear water tank, chemical building, sludge treatment, SCADA, and access and internal roads and site drainage; The plant has self-reliant power with in-built turbines at the inlet chamber to generate 100KWatts of power from the 17m incoming water head

Position Held: Team Leader

Activities Performed: Project management, coordination, project liaison and coordination during the construction stage including contract administration, construction management and supervision of the project; Project scheduling, progress tracking and monitoring and control of progress of work through timely action on remedial measures; Review of Contractors' programs, technical submittals and drawings, quality assurance plans, method statements, safety plans, payment applications, etc.; Environmental monitoring; preparation of monthly and quarterly progress reports; review and assessment of claims validity.

Assistant Contracts Engineer
147 C.M.W.S.S. Board

III. Name of Project: JICA funded Bangalore Water Supply and Sewerage Project, Phase II, India

Year: 2012-2013; **Location:** Bangalore, India; **Client:** Bangalore Water Supply and Sewerage Board

Main project features: Project Cost US \$850 million; Raw water transmission: L=0.7 km (open channel); MS pipe: L=16.4 km, D=3,000/2,600mm; Water treatment plant: Q= 500 MLD; Pumped clear water transmission system: L=68 km, D=2,700 mm (mild steel pipe); (i) Pumping stations: 3nos, Q= 500 MLD, (Clear water reservoir); (ii) Distribution trunk: L=88km, D=500-2,200 mm; (iii) Ground water reservoirs: 7nos (Q=152,000 cu m); Water treatment plant: (i) water treatment - raw water inlet chamber, flash mixer chamber, pre and post chlorination, dosing of alum, powdered activated carbon and polymers, dissolved air flotation high rate clarifier, rapid sand filters; (ii) sludge treatment – wastewater balancing tank, sludge thickeners, centrifuges and polymer dosing and (iii) miscellaneous works: administration building, chemical building, substation, paved access roads and site drainage; Distribution system improvement: 326,000 connections and the slum development component enhances the level of service in approximately 300 slum areas by installing water supply and sewerage networks

Position Held: Deputy Team Leader – Water (International)

Activities Performed: The works can be said to have been executed using conventional methods apart from the open channel and some stretches of the pipe line works which involved using explosives (ie controlled blasting) to remove the hard rock material. The works were executed both in the rural and CBD areas; Responsible for management, coordination and liaison during the design & construction stage, including contract administration, construction management and supervision of project activities for all of the water supply works, as well as management of the water supply distribution system improvement works based on DMA concept. For the water supply works, which is complete, responsibilities included project scheduling, progress tracking and monitoring and control of progress of work (including interfaces between contracts) through timely action on remedial measures; review of Contractors' programs, technical submittals and drawings, quality assurance plans (QAPs), method statements, safety plans, payment applications, commissioning tests, as-built drawings, etc; environmental monitoring; supervision of testing and commissioning; preparation of monthly and quarterly progress reports in accordance with JICA requirements and project/contract completion reports; review and assessment of the validity of claims. During pre-construction stage of the water supply improvement works, responsibilities included tendering procedures, pre-qualification, tender evaluation, and recommendation for contract award.

IV. Name of Project: JICA Assisted Agra Water Supply Project, India

Year: 2010-2011; **Location:** Agra City, India; **Client:** UP Jal Nigam, India

Main project features: Project Cost: US\$500 million; Off take structure, sedimentation structure, MS gravity pipeline (L=30kms, Dia=2200 mm); Conventional bridges: 2nos, spanning 160m over the Yamuna River; Advanced WTP: Q=144 MLD (MBBR Technology), screening, moving bed bioreactor (MBBR), ultrafiltration, disinfection, sludge thickening and dewatering, administration building, substation, paved access roads and site drainage; Rehabilitation of 2 conventional WTP. **Total capacity of 369 MLD (225,000 MLD and 144,000MLD).**

Position Held: Team Leader – Construction / Water Supply Engineer

Activities Performed: The sub-projects which were at various stages of implementation. The sedimentation RC structure was 100m by 80m by 8m ht in size and was constructed with bored piles and continuous ground water pumping to lower the water table. The pipeline works were executed using convention trench method with special bedding material and dewatering due to the high-water table. The new water treatment plant was constructed with ground improvement treatment to the existing sub grade using micro piles and the bridges used post tension beams and the RC abutments were constructed using sheet pile cofferdams. **Responsible for Contract administration**, construction management and supervision involving MS project scheduling, progress tracking and monitoring and control of progress of work through timely action on remedial measures; review of Contractors' programmes, technical submittals and drawings, quality assurance plans (QAPs), method statements, safety plans, payment applications, etc.; environmental and social monitoring; preparation of monthly and quarterly progress reports **in accordance with JICA requirements**; review and assessment of claims validity.

V. Name of Project: Meydan City Development, Dubai, United Arab Emirates

Year: 2007-2010; **Location:** Dubai, United Arab Emirates; **Client:** DEWA, United Arab Emirates;

Main project features: Project cost: US\$ 2.4 billion; DI pipeline: L=62 km, D=9-600 mm; distribution pipelines, reservoirs(3nos); pumping stations(3nos). Wastewater works included treatment plant for a population equivalent of 40,000; Sewers, pumping stations, rising mains, storm water drainage(L=14km), roads, canals.

Position Held: Project Manager/Team Leader

Activities Performed: The pipe lines were all hydraulically jacked and all structures had bored/ driven pile foundations. The artificial canal of 6m depth had diaphragm walls and the entire works were SCADA controlled; Responsible for managing the design for a new development area, together with construction management, administration and supervision of the first phase of the development, which was constructed on a fast track basis. Responsibilities throughout the project included development, tracking and monitoring of the project schedule (especially critical path activities and with regard to interfaces between works carried out by different companies), updating and modifying the schedule, taking timely action to ensure that the schedule was maintained. In the design and procurement stages, responsibilities included management of multidisciplinary team including specialist sub-consultants, quality assurance and control, development of optimum procurement strategy, implementation of value engineering, budget control, etc. During construction responsible for contract administration, construction management and supervision including project scheduling, progress tracking and monitoring and control of progress of work through timely action on remedial measures.

Assistant Contracts Engineer
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Chennai-600 002

VI. Name of Project: Bunus Sewage Treatment Plant, Malaysia

Year: 2004-2006; **Location:** Malaysia; **Client:** Government of Malaysia/ Sewerage Services Department;

Main project features: Project Cost: US\$ 40 million; Sewage treatment plant: **Q=87,000 MLD**; Preliminary treatment, primary settlement, activated sludge, final settlement and sludge treatment, administration building, electrical substation, roads and site drainage

Position Held: Project Manager/Team Leader

Activities Performed: The STP had RC piled foundation and was constructed using conventional methods. Responsible for overall project management, coordination, project liaison and coordination during the construction stage including contract administration, construction management and supervision of the project.

VII. Name of Project: JICA Funded Kalu Ganga Water Supply Project for Greater Colombo, Sri Lanka

Year: 2002-2004; **Location:** Colombo City, Sri Lanka; **Client:** National Water Supply & Drainage Board;

Main project features: Project Cost: US\$ 95 million; Expansion of water supply to serve the far southern urban areas of Greater Colombo. The new water source, the Kalu River, is located south of the service area, supplementing that of the Kelani River, the existing major water source for Greater Colombo. The project included the construction of a 126,000 cu. m/d capacity intake with coarse and fine screens; an intake (low level) pump station (with installed pump capacity of 63,000 cu. m/d) and 1000 mm diameter DI raw water transmission main 2.42 km long; a 60,000 cu. m/d conventional potable water treatment plant; a 60,000 cu. m/d clear water (high level) pump station (including 3 No pumps rated at 20.83 cu. m/min and 69 m head); 6.7 km of 1,000 mm diameter DI clear water transmission main, **15,000 cu. m capacity reinforced concrete clear water reservoir**; 26.25 km of DI transmission mains from 1200 to 500 mm diameter; 246 km of new and rehabilitated bulk distribution and distribution mains including as part of distribution network improvements, 13,000 metered property connections and associated facilities.

Position Held: Chief Resident Engineer

Activities Performed: Responsible for construction management and supervision including project scheduling, progress tracking, monitoring and control of progress of work through timely action on remedial measures, review of necessary hydraulic network modeling, review of Contractors' programmes, technical submittals and drawings, quality assurance plans (QAPs), method statements, safety plans, payment applications, as-built drawings, etc.; environmental monitoring; social safeguard monitoring, supervision of testing and commissioning of the facilities; preparation of monthly and quarterly progress reports project in accordance with JBIC formats; review and assessment of the validity of claims.

VIII. Name of Project: Semanggar Water Supply Scheme, Malaysia

Year: 1996-2002; **Location:** Malaysia; **Client:** Government of Malaysia/ Sewerage Services Department;

Main project features: Project Cost about US\$ 15 million. The ultimate capacity of the project was **318 MLD**. The first phase which was implemented under this project had a capacity of 159 MLD and included river intake and pumping station, raw water transmission main approximately 1 km long, conventional water treatment plant with sludge treatment, SCADA, and **10 km long treated MS water pipeline with diameter 1250mm**.

Position Held: PM/Team Leader

Activities Performed: Responsible for overall project management, coordination and liaison during the master planning, feasibility study, design, pre-construction and construction of this project which was implemented as a turnkey (design-build) project. In the master planning and study stage managed the evaluation of various process and phasing options. Responsibilities in the design stage included management of preparation of **detailed engineering designs**, specifications, bills of quantities, **tender documents and cost estimates**. During pre-construction stage responsibilities included tendering procedures, pre-qualification, tender evaluation, and recommendation for contract award. In the construction stage responsible for contract administration, construction management and supervision including project scheduling, progress tracking and monitoring and control of progress of work through timely action on remedial measures; review of Contractors' programmes, technical submittals and drawings, quality assurance plans, method statements, safety plans, payment applications, commissioning tests, as-built drawings, etc; environmental monitoring; supervision of testing and commissioning ;preparation of monthly and quarterly progress reports and project/contract completion reports.

IX. Name of Project: Jelutong Wastewater Treatment Plant, Malaysia

Year: 1995-1996; **Location:** Malaysia; **Client:** government of Malaysia/ Sewerage Services Department;

Main project features: The Jelutong Sewage Treatment Plant (JSTO) has a sequencing batch reactor (SBR) activated sludge technology with anaerobic sludge digester and dewatering system due to restriction on land availability.

Position Held: Project Manager/Team Leader

Activities Performed: Responsible for management of a feasibility study to investigate the viability of private sector financing for the implementation of a wastewater treatment plant treating a flow of about 250 MLD. This included liaison with process designers, equipment suppliers, contractors, etc. in order to investigate and evaluate process options, prepare preliminary designs and cost estimates and develop a viable solution for the use of the private sector in the construction of wastewater treatment plants in Malaysia.

X. Name of Project: Shepparton Water Treatment Plant Extensions, Australia

Year: 1992-1995; **Location:** Australia; **Client:** Greater City of Shepparton Municipal Council, Victoria, Australia;

Main project features: O&M and Capital Works involving refurbishment of Distribution network for the small township together with conventional treatment plant with a capacity of **30 MLD** included inlet chamber, rapid mixing, flocculation-sedimentation tanks, rapid sand filter, backwash, backwash water recovery tank, clear water tank, chemical building, modifications and extensions to existing buildings, electrical substation, sludge treatment, SCADA, and access and internal roads and site drainage.

Position Held: Project Manager/Team Leader

149

DL
Associate Contracts Engineer
01/07/2014 A.M. 10:00 AM
Guard

Activities Performed: Responsible for network maintenance and burst repair during O&M. and for Capital works the overall project management, project liaison and coordination during preparation of detailed design and tender documents, pre-construction stage and construction supervision stage including commissioning assistance.

XI. Name of Project: Cobram Water Treatment Plant, Australia

Year: 1990-1992; **Location:** Australia; **Client:** Cobram Municipal Council, Australia;

Main project features: O&M and Capital Works involving refurbishment of Distribution network for the small township together with conventional treatment plant with a capacity of **15 MLD**.

Position Held: Project Manager/Team Leader

Activities Performed: Responsible for network maintenance and burst repair during O&M. and for Capital works the overall project management, project liaison and coordination during preparation of detailed design and tender documents, pre-construction stage and construction supervision stage.

XII. Name of Project: Tumbat and Sungai Pinang Water Supply Project, Malaysia

Year: 1987-1990; **Location:** Malaysia; **Client:** Government of Malaysia / Jabatan Bekalan Air

Main project features: Project included about **65 km of transmission and distribution mains** up to 400 mm diameter, **5 No reservoirs and booster pumping stations**, house connections. Total population serving with this project is more than 2.29 million.

Position Held: Water Supply Design Engineer / Resident Engineer

Activities Performed: Responsible for preparation of **detailed design including hydraulic model designing, preparation of tender documents**, cost estimates, assistance with tender evaluation and construction supervision.

XIII. Name of Project: Bukit Remah Water Treatment Plant Project, Malaysia

Year: 1985-1987; **Location:** Malaysia; **Client:** Government of Malaysia / Jabatan Bekalan Air;

Main project features: The conventional water treatment plant included receiving well, rapid mixing, flocculation-sedimentation tanks, rapid sand filter, backwash, various tanks, chemical building, chlorine building, administration building, electrical substation, sludge treatment, and paved access roads and site drainage

Position Held: Water Supply Design Engineer / Assistance Resident Engineer

Activities Performed: Prepared detailed civil and hydraulic design, bills of quantities and **tender documents**, assisted in the evaluation of tenders, coordinated with other design disciplines, including process, mechanical, electrical and structural. Supervised the construction of civil, structural and architectural works, including project scheduling, progress tracking and monitoring and control of progress; review of **Contractors' programmes**, technical submittals and drawings, quality assurance plans, method statements, safety plans, as-built drawings, etc.; assisted in the preparation of all progress reports.

7. Certification:

I, the undersigned, certify to the best of my knowledge and belief that:

- (i) this CV correctly describes my qualifications and my experience;
- (ii) In the absence of medical incapacity, I will undertake this assignment for the duration and in terms of the inputs specified for me in the Expert Schedule in Form TECH-7 provided team mobilization takes place within the validity of this proposal or any agreed extension thereof;
- (iii) I am committed to undertake the assignment within the validity of Proposal;
- (iv) I am not part of the team who wrote the terms of reference for this consulting services assignment;
- (v) I am, pursuant to Clauses 3 and 4 of the ITC, eligible for engagement.

I understand that any misstatement described herein may lead to my disqualification or dismissal, if engaged.

Signature of Key Expert or authorized representative of the firm

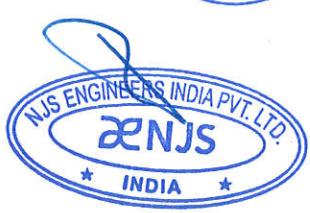
Date: 08/03/2019

Full name of authorized representative: Mr. Gaurav Kumar Srivastava



Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002

Appendix D – Remuneration Cost Estimates



151

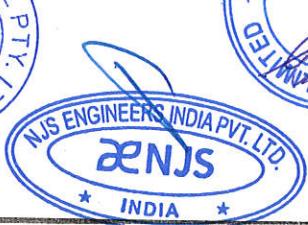
Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.

Name of Work: Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works
Proposal No. CNT/CON/DESAL /ICB/Gol/016 /2018-19

M/s. SMEC International Pty Limited, Australia in consortium with M/s.NJS Engineers India Pvt Ltd, Pune, M/s. Tata Consulting Engineers Ltd, Navi Mumbai, M/s.SMEC India Pvt Ltd, Haryana

Form FIN-3: REMUNERATION (BREAKDOWN OF COSTS)

Sl. No.	Name of Expert (International/ Local)	Position	Employment Status ¹	Currency	Home Ofc Rate		Field Rate	Staff Month (SM)	Rate/Month	Total Amount in USD (SM)	Total Amount in INR
					Rate/ Month	Staff Month (SM)					
REMUNERATION FOR INTERNATIONAL EXPERT - KEY EXPERT											
1	Dr.Parajasegram (Dharma) Dharmabalan	Project Manager - International Expert	IE	USD			37500	70	2625000.00		
2	Mr.Ghulam Mustafa	Desalination Expert - International Expert	FT	USD			26225	32	839200.00		
3	Mr.Shane Farquharson	Water Supply Engineer - International Expert	IE	USD			25360	23	583280.00		
4	Mr.Michel Morillon	Mechanical Engineer (Desal)- International Expert	IE	USD			44000	15	660000.00		
5	Mr.Sergio de Bastos Villar Magalhaes Paulo	Electrical Engineer (Desal) - International Expert	IE	USD			13132	25	328300.00		
6	Mr.John Goullie	Pipeline Engineer - International Expert	IE	USD			22602	70	1582140.00		
7	Mr.Roderick Mackenzie	Contract Specialist (Desal) - International Expert	IE	USD			44407	9	399663.00		



152



Assistant Contracts Engineer
C. M. W. S. S. Board
Chennai-600 002.



Name of Work: Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works

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M/s.SMEC International Pty Limited, Australia in consortium with M/s.NJS Engineers India Pvt Ltd, Pune, M/s.Tata Consulting Engineers Ltd, Navi Mumbai, M/s.SMEC India Pvt Ltd, Haryana

Form FIN-3: REMUNERATION (BREAKDOWN OF COSTS)

REMUNERATION FOR KEY & NON KEY EXPERT						
Sl. No	Name of Expert (International/ Local)	Position	Employment Status ¹	Currency	Home Ofc Rate	Field Rate
					Rate/ Month	Staff Month (SM)
8	Mr.Tharloak S.Bhatt	Contract Specialist (Distribution)- International Expert	IE	USD	22700	8
9	Mr.S.Siddappaswamy	Senior Civil Engineer	FT	INR	800000	72
10	Mr.Nagesh Chinnam	Senior Pipeline Engineer	FT	INR	600000	72
Sub Total					396	7199183.00
						1000800000.00



153

Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.

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Proposal No. CNT/CON/DESAL /ICB/Gol/016 /2018-19

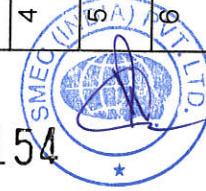
M/s. SMEC International Pty Limited, Australia in consortium with M/s.NJS Engineers India Pvt Ltd, Pune, M/s.Tata Consulting Engineers Ltd, Navi Mumbai, M/s.SMEC India Pvt Ltd, Haryana

Form FIN-3: REMUNERATION (BREAKDOWN OF COSTS)

Sl. No	Name of Expert (International/ Local)	Position	Employment Status ¹	REMUNERATION FOR KEY & NON KEY EXPERT			Field Rate	Staff Month (SM)	Total Amount in USD	Total Amount in INR
				Currency	Rate/ Month	Staff Month (SM)				
REMUNERATION FOR INTERNATIONAL EXPERT - NON KEY EXPERT										
1	Dr.D.Elancherian	Civil and Structure Engineer (Desal)	IE	USD			10895	42	457590.00	
2	Mr.Madhawa Delpachitra	Mechanical Engineer (Distribution)	IE	USD			22700	4	90800.00	
3	Mr.Manfred Kurt (Meisner)	Electrical Engineer (Distribution)	IE	USD			23500	4	94000.00	
4	Mr.Manikandan Ganesh Shoranur	Monitoring and control expert (Desal)	IE	USD			19260	11	211860.00	
5	Mr.Ashish Gosain	Monitoring and control expert (Distribution)	IE	USD			7704	12	92448.00	
6	Mr.J.Shanmuganathan	Specification Specialist (Desal)	IE	USD			7264	4	29056.00	
7	Mr.Manish Chintamani Same	Specification Specialist (Distribution)	FT	USD			11560	3	34680.00	
8	Mr.Hemant Chadha	Financial Expert	IE	USD			12106	3	36318.00	
9	Dr.Alok Kumar	Environmental Specialist	FT	USD			12750	15	191250.00	



154



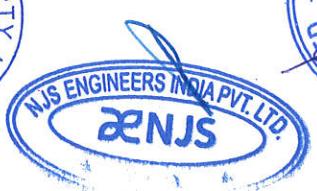
Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.

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M/s.SMEC International Pty Limited, Australia in consortium with M/s.NJS Engineers India Pvt Ltd, Pune, M/s.Tata Consulting Engineers Ltd, Navi Mumbai, M/s.SMEC India Pvt Ltd, Haryana

Form FIN-3: REMUNERATION (BREAKDOWN OF COSTS)

REMUNERATION FOR KEY & NON KEY EXPERT								
Sl. No	Name of Expert (International/ Local)	Position	Employment Status ¹	Currency	Home Ofc Rate	Field Rate	Staff Month (SM)	Total Amount in INR
					Rate/ Month			
10	Mr.P.Santhosh Kumar	Commissioning Engineer	IE	USD		10015	10	100150.00
11	Mr.Rajesh Mishra	Social Communication Specialist	FT	USD		9630	16	154080.00
12	Mr.Hyacinth Augusto Vaz	Organizational Expert	IE	USD		10950	9	98550.00
				Sub Total		133	1590782.00	



155



Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.



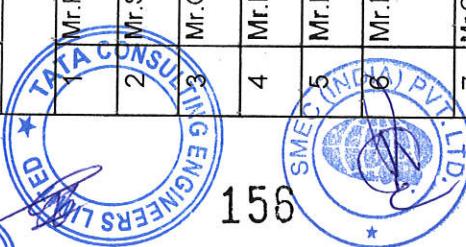
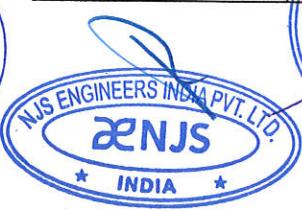
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Proposal No. CNT/CON/DESAL /ICB/Gol/016 /2018-19

M/s. SMEC International Pty Limited, Australia in consortium with M/s.NJS Engineers India Pvt Ltd, Pune, M/s.Tata Consulting Engineers Ltd, Navi Mumbai, M/s.SMEC India Pvt Ltd, Haryana

Form FIN-3: REMUNERATION (BREAKDOWN OF COSTS)

REMUNERATION FOR KEY & NON KEY EXPERT									
Sl. No	Name of Expert (International/ Local)	Position	Employment Status ¹	Currency	Home Ofc Rate		Field Rate		Total Amount in USD (SM)
					Rate/ Month	Staff Month (SM)	Rate/Month	Staff Month (SM)	
REMUNERATION FOR LOCAL EXPERT- NON KEY EXPERT									
1	Mr.Ramesh Senthil	Civil Engineer	IE	INR			435750	72	31374000.00
2	Mr.Surajit Debnath	Mechanical Engineer	FT	INR			500000	40	20000000.00
3	Mr.G.V.K.Mohan	Electrical Engineer	FT	INR			500000	45	22500000.00
4	Mr.M.K.Vinod	Structural Engineer	FT	INR			625000	28	17500000.00
5	Mr.M.Kumar	Architect	FT	INR			475000	12	5700000.00
6	Mr.K.Senthil	Building Mechanical and Electrical Engineer	FT	INR			550000	16	8800000.00
7	Mr.Chandra Shekhar Reddy Yedia	Pipeline Engineer 1	IE	INR			430000	60	25800000.00
8	Mr.V.T.Jasi Ram	Pipeline Engineer 2	IE	INR			430000	60	25800000.00
9	Mr.S.Hema Kumar	Pipeline Engineer 3	FT	INR			240000	50	12000000.00
10	Mr.P.M.Saravanan	Hydraulic Modeler 1	IE	INR			430000	8	3440000.00
11	Th.V.Nandini	Hydraulic Modeler 2	IE	INR			430000	8	3440000.00



156

Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.



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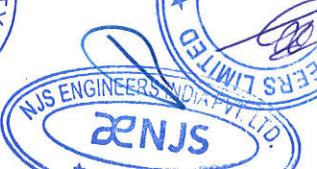
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Form FIN-3: REMUNERATION (BREAKDOWN OF COSTS)

REMUNERATION FOR KEY & NON KEY EXPERT

Sl No	Name of Expert (International/ Local)	Position	Employment Status ¹	Currency	Home Ofc Rate		Field Rate		Total Amount in USD	Total Amount in INR
					Rate/ Month	Staff Month (SM)	Rate/Month	Staff Month (SM)		
12	Mr.Naisa Sreenivasulu Reddy	Construction Planner/Cost Estimator	IE	INR			300000	4		1200000.00
13	Mr.Sreenivasula Reddy	Specification Specialist	FT	INR			500000	4		2000000.00
14	Mr.S.M.Karthikeeswaran	Environmental Specialist	FT	INR			500000	30		15000000.00
15	Dr.M.Rahsekhar Reddy	Social Communication Specialist	IE	INR			500000	72		36000000.00
16	Mr.Najas Thattakatte Abdulkareem	Safety and Health Expert 1	IE	INR			240000	40		9600000.00
17	Mr.Frasanth Baan	Safety and Health Expert 2	IE	INR			240000	70		16800000.00
18	Mr.K.C.Vinod Chandra	Quantity Surveyor 1	FT	INR			300000	50		15000000.00
19	Mr.V.S.Rajasekar	Quantity Surveyor 2	IE	INR			240000	70		16800000.00
Sub Total								739.00		288754000.00



Name of Work: Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works

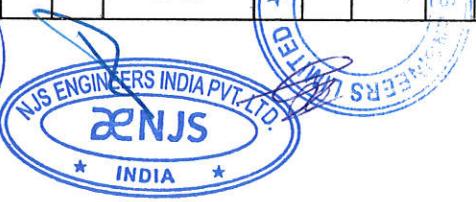
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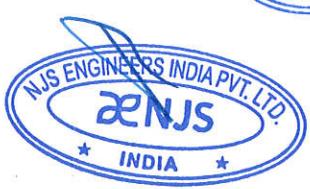
Form FIN-3: REMUNERATION (BREAKDOWN OF COSTS)

Sl. No	Name of Expert (International/ Local)	Position	Employment Status ¹	Currency	Home Ofc Rate		Field Rate		Total Amount in USD	Total Amount in INR
					Rate/ Month	Staff Month (SM)	Rate/Month	Staff Month (SM)		
REMUNERATION FOR SUPPORTING STAFF										
1	TBN	Secretary	IE	INR			52290	70		3660300.00
2	TBN	CAD Operator (3 Nos)	IE	INR			100000	90		9000000.00
3	TBN	GIS Operator	IE	INR			250000	18		4500000.00
4	TBN	Inspectors (4 Nos)	IE	INR			135000	200		27000000.00
5	TBN	Geo Technical Engineer	IE	INR			435750	6		2614500.00
6	TBN	MIS Specialist	IE	INR			260000	50		13000000.00
7	TBN	Contract Management	IE	INR			435750	6		2614500.00
8	TBN	Visa and Admin Officer	IE	INR			104580	70		7320600.00
9	TBN	Accountant	IE	INR			69720	70		4880400.00
10	TBN	Office Keeper	IE	INR			26145	140		3660300.00
Sub Total- INR									720	78250600.00

Full-time (FT) – employee of the lead firm or joint venture member or Sub-consultant; Other Source (OS) – an Expert provided by another source that is not a joint venture member or a Sub-consultant firm; Independent Expert (IP) – independent, self-employed Expert.



Appendix E –Reimbursable Cost Estimates



159

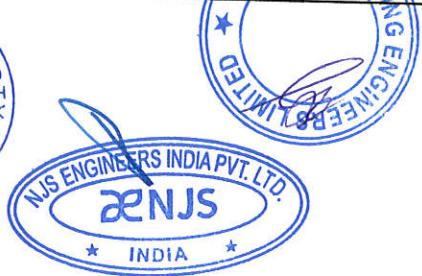
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Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.



Name of Work:Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works
Proposal No. CNT/CON/DESSAL /ICB/Gol/016 /2018-19

Form FIN-5: BREAKDOWN OF REIMBURSABLE EXPENSES
M/s.SMEC International Pty Limited, Australia in consortium with M/s.NJS Engineers India Pvt Ltd, Pune, M/s.Tata Consulting Engineers
Ltd, Navi Mumbai, M/s.SMEC India Pvt Ltd, Haryana

Sl. No	Description	Unit	Currency	Qty	Rate	Total Amount in USD	Total Amount in INR
1. TRANSPORTATION (REIMBURSABLE)							
	The vehicles provided by the Consultants shall include the cost for rental, drivers, operation, maintenance, repairs, insurance, etc.	No	INR	454	50000.00		2270000.00
	Total INR						2270000.00
2. DUTY TRAVEL TO SITE (REIMBURSABLE)							
1	International Air Travel						
	Professional Staff	No	USD	50	3000	150000.00	
	Sub Professional Staff	No	USD	0		0.00	
	Total					150000.00	
2	Local Air Travel						
	Professional Staff						
	Sub Professional Staff		INR	60	20000.00	1200000.00	
	Total		INR	100	10000	1000000.00	2200000.00



160

Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002,

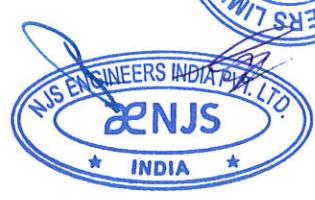
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Proposal No. CNT/CON/DESAL /ICB/Gol/016 /2018-19

Form FIN-5: BREAKDOWN OF REIMBURSABLE EXPENSES

M/s.SMEC International Pty Limited, Australia in consortium with M/s.NJS Engineers India Pvt Ltd, Pune, M/s.Tata Consulting Engineers Ltd, Navi Mumbai, M/s.SMEC India Pvt Ltd, Haryana

Sl. No	Description	Unit	Currency	Qty	Rate	Total Amount in USD	Total Amount in INR
3. OFFICE RENT (REIMBURSABLE)							
1	The rent cost includes maintenance, cleaning, repairs, etc., months x 250 x sq.m._____	INR	INR	77	100000	7700000.00	7700000.00
	Total						
4. Office Supplies, Utilities and Communication (Reimbursable)							
1	Office Supplies	No	INR	77	10000	770000.00	770000.00
2	Drafting Supplies	No	INR	77	6000	462000.00	462000.00
3	Computer Running Costs	No	INR	77	5000	385000.00	385000.00
4	Domestic Communication	No	INR	77	15000	1155000.00	1155000.00
	Total INR						
	2772000.00						



Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.



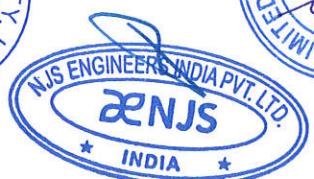
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Propcsal No. CNT/CON/DESAL /ICB/Gol/016 /2018-19

Form FIN-5: BREAKDOWN OF REIMBURSABLE EXPENSES

M/s.SMEC International Pty Limited, Australia in consortium with M/s.NJS Engineers India Pvt Ltd, Pune, M/s.Tata Consulting Engineers Ltd, Navi Mumbai, M/s.SMEC India Pvt Ltd, Haryana

Sl. No	Description	Unit	Currency	Qty	Rate	Total Amount in USD	Total Amount in INR
5. Office Furniture and Equipment (Reimbursable)							
	Office Furniture (Purchase)						
1	Work Station Table & Chairs	No.	INR	LS		500000.00	
2	Conference Hall Table & Chairs	No.	INR	LS		250000.00	
3	Office Interiors	No.	INR	LS		1000000.00	
	Total INR						1750000.00
	Office Equipment (Purchase)						
1	Multipurpose Copy Machine	No.	INR	1.00	200000	200000.00	
	A0, A1, A2 Plotter	No.	INR	1.00	500000	500000.00	
2	Laser Printers	No.	INR	1.00	100000	100000.00	
3	Desktops/Laptops	No.	INR	15.00	60000	900000.00	
4	Refrigerator, Coffee Vending Machine, Oven. Etc	No.	INR	LS		100000.00	
5	Office Attendance Biometric Systems	No.	INR	LS		100000.00	
6	Office Server	No.	INR	LS		1000000.00	
7	Projector	No.	INR	2.00	25000	50000.00	



Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.

162





Name of Work:Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works
Proposal No. CNTT/CON/DESEL /ICB/Gol/016 /2018-19

Form FIN-5: BREAKDOWN OF REIMBURSABLE EXPENSES

M/s.SMEC International Pty Limited, Australia in consortium with M/s.NJS Engineers India Pvt Ltd, Pune, M/s.Tata Consulting Engineers Ltd, Navi Mumbai, M/s.SMEC India Pvt Ltd, Haryana

Sl. No	Description	Unit	Currency	Qty	Rate	Total Amount in USD	Total Amount in INR
8	Video Conference with Dispaly TVs	No.	INR	1.00	300000		300000.00
9	Softwares	No.	INR	LS			300000.00
			Total-INR			6250000.00	
			Total (5) INR				8000000.00

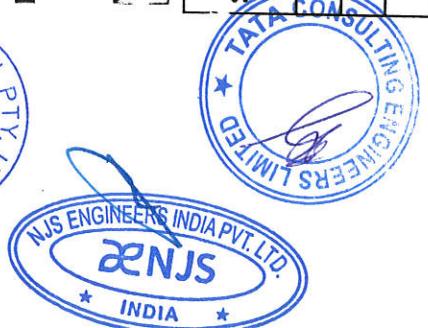
6. PER DIEM (PER DAY) ALLOWANCE (REIMBURSABLE)

1	International	No	INR	2250	5000		11250000.00
2	National	No	INR	50	5000		250000.00
			Total-INR				11500000.00

7. REPORTS AND DOCUMENT PRINTING (REIMBURSABLE)

1	Monthly Progress Report	No	INR	154	6000		924000.00
2	Design Reports	No	INR	50	10000		500000.00
			Total-INR				1424000.00

163



Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.

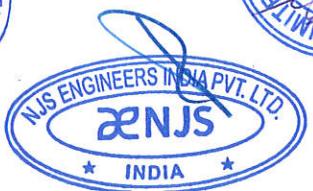
Name of Work: Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Pcrur and all allied works

Proposal No. CNT/CON/DESAL /ICB/Goi/016 /2018-19

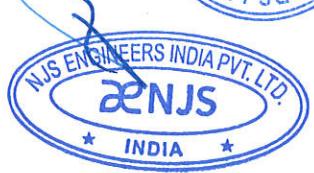
Form FIN-5: BREAKDOWN OF REIMBURSABLE EXPENSES

M/s. SMEC International Pty Limited, Australia in consortium with M/s.NJS Engineers India Pvt Ltd, Pune, M/s.Tata Consulting Engineers Ltd, Navi Mumbai, M/s.SMEC India Pvt Ltd, Haryana

Sl. No	Description	Unit	Currency	Qty	Rate	Total Amount in USD	Total Amount in INR
8. SURVEY (REIMBURSABLE)							
1	Bathymatic Survey	No	INR	1	800000		800000.00
2	Geotechnical Survey	No	INR	50	15000		750000.00
3	Water sample testing	No	INR	10	45000		450000.00
4	Topographical survey	No	INR	600	5000		3000000.00
Total-INR							50000000.00



Appendix F – Summary of Cost Estimates



165

Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.

ABSTRACT

Name of Work: Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works

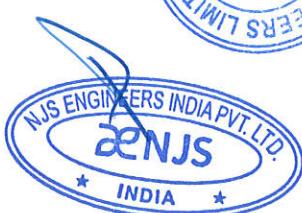
Proposal No. CNT/CON/DESAL /ICB/Gol/016 /2018-19

(Excluding GST, Registration charges including provisional sum & contingencies @ 5%)

Name of the Consultant: M/s.SMEC International Pty Limited, Australia in consortium with M/s.NJS Engineers India Pvt Ltd, Pune, M/s.Tata Consulting Engineers Ltd, Navi Mumbai, M/s.SMEC India Pvt Ltd, Haryana

ABSTRACT OF FIRST RANKED CONSULTANCY FIRM

S. No	Description	Amount	Amount (Foreign Currency)								
		(Indian Rupees)	USD	Conversion rate	Amount in INR	EURO					
A	Remuneration	467804600.00	8789965.00	70.8335	622623985.83	0.00					
B	Direct Cost (Reimbursable Expenses) - excluding Registration Charges	61296000.00	150000.00	70.8335	10625025.00	0.00					
Total of (A & B)		529100600.00	8939965.00		633249010.83	0.00					
Local/Indirect Taxes*		GST exempted									
Contingencies @ 5%*		26455030.00	446998.25	70.8335	31662450.54	0.00					
Provisional Sums*		20000000.00	25000.00	70.8335	1770837.50						
Total		575555630.00	9411963.25		666682298.87	0.00					
say		575555630.00	9411963.00		666682299.00	0.00					
Total amount in INR		1242237929.00									
The tender was accepted by the competent authority i.e., Board vide Res.No.159/2019, dated:05.11.2019.											
This amount of INR.57,55,55,630.00 (Rupees Fifty Seven Crore Fifty Five Lakh Fifty Five Thousand Six Hundred Thirty Only) and in USD, \$9,411,963 (Nine Million Four Hundred Eleven Thousand Nine hundred Sixty Three Dollars Only) totaling to INR124,22,37,929.00 from 1st ranked consultant.											



165

DL
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C.M.W.S.S. Board
Chennai-600 002.

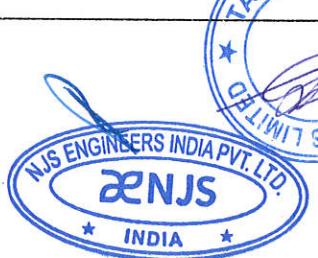
Name of Work: Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works

Proposal No. CNT/CON/DESAL /ICB/Gol/016 /2018-19

FINAL ABSTRACT

M/s.SMEC International Pty Limited, Australia in consortium with M/s.NJS Engineers India Pvt Ltd, Pune, M/s.Tata Consulting Engineers Ltd, Navi Mumbai, M/s.SMEC India Pvt Ltd, Haryana

S. No	Description	Amount	Amount (Foreign Currency)	
		(Indian Rupees)	USD	EURO
A	Remuneration			
1	Remuneration for Professional (International Experts)	100800000.00	✓ 8789965.00	
2	Remuneration for Professional (Local Experts)	288754000.00	✓	
3	Supporting Staffs	78250600.00	✓	
	Subtotal of A	467804600.00	✓ 8789965.00	✓ 0.00
B	Direct Cost (Reimbursable Expenses)			
1	Transportation	22700000.00	✓	
2	Duty Travel			
	International Air Travel		150000.00	
	Local Air Travel	2200000.00	✓	
3	Office Rent	7700000.00	✓	
4	Office Supplies, Utilities and Communication	2772000.00	✓	
5	Office Furniture and Equipment	8000000.00	✓	
6	Reports and Document Printing	1424000.00	✓	
7	Survey	5000000.00	✓	
8	Registration Charges			
9	Per Diem (Per Day) Allowance	11500000.00		
	Subtotal of B	61296000.00	✓ 150000.00	0.00
	Total of (A & B)	529100600.00	✓ 8939965.00	0.00
	Local/Indirect Taxes*		GST exempted	
	Contingencies @ 5%*	26455030.00	446998.25	0.00
	Provisional Sums*	20000000.00	25000.00	
	Total	575555630.00	9411963.25	0.00



16



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45



Appendix G – Services, Facilities and Property to be provided by the Client



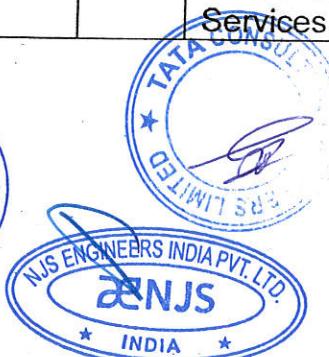
168

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Chennai-600 002.

Appendix G – Services, Facilities and Property to be provided by the Client

Note: See Clause GCC 5.1, GCC 5.4(a) and GCC 5.5(a). List the services, facilities, property and counterpart personnel to be provided by the Client and the timing and manner in which they shall be provided.

5.1	Assistance and Exemptions	<p>Unless otherwise specified in the SCC, the Client shall use its best efforts to:</p> <ul style="list-style-type: none"> (a) Assist the Consultant with obtaining work permits and such other documents as shall be necessary to enable the Consultant to perform the Services. (b) Assist the Consultant with promptly obtaining, for the Experts and, if appropriate, their eligible dependents, all necessary entry and exit visas, residence permits, exchange permits and any other documents required for their stay in the Client's country while carrying out the Services under the Contract. (c) Facilitate prompt clearance through customs of any property required for the Services and of the personal effects of the Experts and their eligible dependents. (d) Issue to officials, agents and representatives of the Government all such instructions and information as may be necessary or appropriate for the prompt and effective implementation of the Services. (e) Assist the Consultant and the Experts and any Sub-consultants employed by the Consultant for the Services with obtaining exemption from any requirement to register or obtain any permit to practice their profession or to establish themselves either individually or as a corporate entity in the Client's country according to the applicable law in the Client's country. (f) Assist the Consultant, any Sub-consultants and the Experts of either of them with obtaining the privilege, pursuant to the applicable law in the Client's country, of bringing into the Client's country reasonable amounts of foreign currency for the purposes of the Services or for the personal use of the Experts and of withdrawing any such amounts as may be earned therein by the Experts in the execution of the Services. (g) Provide to the Consultant any such other assistance as may be specified in the SCC.
5.2	Access to Project Site	<p>The Client warrants that the Consultant shall have, free of charge, unimpeded access to the Project site in respect of which access is required for the performance of the Services. The Client will be responsible for any damage</p>



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			<p>to the Project site or any property thereon resulting from such access and will indemnify the Consultant and each of the Experts in respect of liability for any such damage, unless such damage is caused by the willful default or negligence of the Consultant or any Sub-consultants or the Experts of either of them.</p>
5.3	Change in the Applicable Law Related to Taxes and Duties		<p>If, after the date of this Contract, there is any change in the Applicable Law in the Client's country with respect to taxes and duties which increases or decreases the cost incurred by the Consultant in performing the Services, then the remuneration and reimbursable expenses otherwise payable to the Consultant under this Contract shall be increased or decreased accordingly by agreement between the Parties hereto, and corresponding adjustments shall be made to the ceiling amounts specified in Clause GCC 6.1(b).</p>
5.4	Services, Facilities and Property of the Client		<p>(a) The Client shall make available to the Consultant and the Experts, for the purposes of the Services and free of any charge, the services, facilities and property described in Appendix G at the times and in the manner specified in said Appendix G.</p> <p>(b) In case that such services, facilities and property shall not be made available to the Consultant as and when specified in Appendix G, the Parties shall agree on (i) any time extension that it may be appropriate to grant to the Consultant for the performance of the Services, (ii) the manner in which the Consultant shall procure any such services, facilities and property from other sources, and (iii) the additional payments, if any, to be made by the Client to the Consultant as a result thereof pursuant to Clause GCC 6.1 (c).</p>
5.5	Counterpart Personnel		<p>(a) The Client shall make available to the Consultant free of charge such professional and support counterpart personnel, to be nominated by the Client with the Consultant's advice, if specified in Appendix G.</p> <p>(b) If counterpart personnel are not provided by the Client to the Consultant as and when specified in Appendix G, the Parties shall agree on (i) any time extension that it may be appropriate to grant to the Consultant for the performance of the Services, (ii) how the affected part of the Services shall be carried</p>

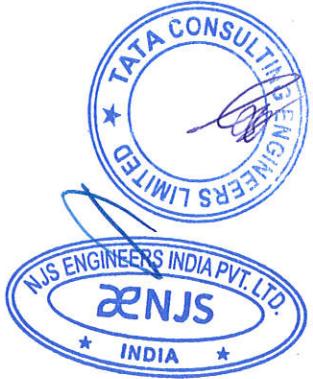


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G.M.W.S.S. Board
Chennai-600 002.

		<p>out, and (iii) the additional payments, if any, to be made by the Client to the Consultant as a result thereof pursuant to Clause GCC 6.1 (c).</p> <p>(c) Professional and support counterpart personnel, excluding Client's liaison personnel, shall work under the exclusive direction of the Consultant. If any member of the counterpart personnel fails to perform adequately any work assigned to such member by the Consultant that is consistent with the position occupied by such member, the Consultant may request the replacement of such member, and the Client shall not unreasonably refuse to act upon such request.</p>
5.6	Payment Obligation	<p>In consideration of the Services performed by the Consultant under this Contract, the Client shall make such payments to the Consultant and in such manner as is provided by Clause GCC 6 below.</p>



Appendix H – Form of Advance Payment Security



172

Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.



Appendix H – Form of Advance Payment Security Bank Guarantee for Advance Payment

_____ [Bank's Name and Address of Issuing Branch or Office]

Beneficiary: _____ [Name and Address of Client]

Date: _____

ADVANCE PAYMENT GUARANTEE No.: _____

We have been informed that [name of Consulting Firm or name of the Joint Venture, same as appears in the signed Contract] (hereinafter called "the Consultants") has entered into Contract No. [reference number of the contract] dated [date] with you, for the provision of [brief description of Services] (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, an advance payment in the sum of [amount in figures] ([amount in words]) is to be made against an advance payment guarantee.

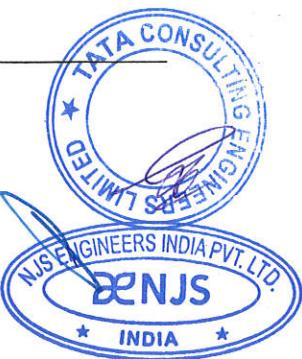
At the request of the Consultants, we [name of Bank] hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of [amount in figures] ([amount in words])¹ upon receipt by us of your first demand in writing accompanied by a written statement stating that the Consultants are in breach of their obligation under the Contract because the Consultants have used the advance payment for purposes other than toward providing the Services under the Contract.

It is a condition for any claim and payment under this guarantee to be made that the advance payment referred to above must have been received by the Consultants on their account number _____ at [name and address of Bank].

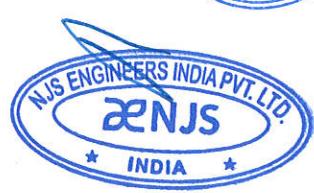
The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Consultants as indicated in copies of your certified statements to such effect which shall be presented to us by the Consultants. This guarantee shall expire, at the latest, upon our receipt of the certified payment certificate issued by you indicating that the Consultants have made full repayment of the amount of the advance payment, or on the ____ day of [month] [year] whichever is earlier. Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees, latest ICC Publication.

_____ [signature(s)]



**Appendix I – Acknowledgment of Compliance with Guidelines for the Employment of
Consultants under Japanese ODA Loan**



174

Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.



Form TECH-9: Acknowledgement of Compliance with the Guidelines for Employment of Consultants

- A) I, *Mr. Gaurav Kumar Srivastava, Country Head - India* being duly authorized by *SMEC International Pty Ltd "Lead Member"* ("Consultant") to execute this Acknowledgement of Compliance with Guidelines for Employment of Consultants, hereby certify on behalf of the Consultant and myself that all information provided in the Technical and Financial Proposals (collectively "Proposals") submitted by the Consultant for [*Loan Agreement No. ID-P267 and Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and up to Porur and all allied works*] (hereinafter called "the Project") is true, correct and accurate to the best of the Consultant's and my knowledge and belief. I further certify, on behalf of the Consultant, that:
- (i) the Proposals have been prepared and submitted in full compliance with the terms and conditions set forth in Guidelines for the Employment of Consultants under Japanese ODA Loans (hereinafter called the "Guidelines"); and
 - (ii) the Consultant has not, directly or indirectly, taken any action which is or constitutes a corrupt, fraudulent, collusive or coercive act or practice in violation of the Guidelines and is not subject to any conflict of interest as stipulated in the relevant section of the Guidelines.
- B) I certify that the Consultant has NOT been debarred by the World Bank Group for more than one year since the date of issuance of the Request for Proposals¹.
- C) I certify that the Consultant will not enter into a Sub-contract with an entity or individual which has been debarred by the World Bank Group for a period more than one year, unless on the date of the subcontract at least three (3) years have passed since the date of such debarment decision.
- D) I certify that the Experts of the Consultant and either Sub-consultant having a direct contract with the Consultant or Expert nominated by the Consultant, who are assigned to this contract on time basis, will not be engaged in any other assignment which may have time conflict with the Contract.
- E) I certify, on behalf of the Consultant, that if selected to undertake services in connection with the Contract, the Consultant shall carry out such services in continuing compliance with the terms and conditions of the Guidelines.
- F) I further certify, on behalf of the Consultant, that if the Consultant is requested, directly or indirectly, to engage in any corrupt or fraudulent action under any applicable law, such as the payment of a rebate, at any time during a process of consultant selection, negotiations, execution or implementation of contract (including amendment thereof), the Consultant shall report all relevant facts regarding such request to the relevant section in JICA (details of which are specified below) in a timely manner.

SMEC International Pty Ltd,
1st Floor, Novus Tower, West Wing,
Plot Number 18, Sector 18,
Gurgaon - 122015, Haryana, India
T +91 124 450 1100 F +91 124 437 6018 E india@smecl.com
www.smecl.com





Member of the Surbana Jurong Group

local people
global experience

JICA's information desk on fraud and corruption (A report can be made to either of the offices identified below.)

- (1) JICA Headquarters: Legal Affairs Division, General Affairs Department

URL: <https://www2.jica.go.jp/en/odainfo/index.php>

Tel: +81 (0)3 5226 8850

- (2) JICA India office

16th Floor, Hindustan Times House

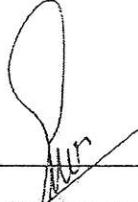
18-20, Kasturba Gandhi Marg,

New Delhi - 110 001

Tel:

The Consultant acknowledges and agrees that the reporting obligation stated above shall NOT in any way affect the Consultant's responsibilities, obligations or rights, under relevant laws, regulations, contracts, guidelines or otherwise, to disclose or report such request or other information to any other person(s) or to take any other action, required to or allowed to, be taken by the Consultant. The Consultant further acknowledges and agrees that JICA is not involved in or responsible for the selection process in any way.

- G) If any of the statements made herein is subsequently proven to be untrue or incorrect based on facts subsequently determined, or if any of the warranties or covenants made herein is not complied with, the Consultant will accept, comply with, and not object to any remedies taken by the Employer and any sanctions imposed by or actions taken by JICA.

Authorized Signatory : 

Name and Title of Signatory: Mr. Gaurav Kumar Srivastava,
Country Head-India

For and on behalf of the Consultant

SMEC International Pty. Ltd

Date: 08.03.2019



SMEC International Pty. Ltd.
1st Floor, Novus Tower, West Wing,
Plot Number -18, Sector -18,
Gurgaon - 122015, Haryana, India
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www.smecl.com



176

Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.
342

Form TECH-9: Acknowledgement of Compliance with the Guidelines for Employment of Consultants

- A) I, *Mr. Mallikarjunagowda Patil, Head- Business Development* being duly authorized by *SMEC (India) Pvt Ltd., "Consortium Partner"* ("Consultant") to execute this Acknowledgement of Compliance with Guidelines for Employment of Consultants, hereby certify on behalf of the Consultant and myself that all information provided in the Technical and Financial Proposals (collectively "Proposals") submitted by the Consultant for *[Loan Agreement No. ID-P267 and Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and up to Porur and all allied works]* (hereinafter called "the Project") is true, correct and accurate to the best of the Consultant's and my knowledge and belief. I further certify, on behalf of the Consultant, that:
- (i) the Proposals have been prepared and submitted in full compliance with the terms and conditions set forth in Guidelines for the Employment of Consultants under Japanese ODA Loans (hereinafter called the "Guidelines"); and
 - (ii) the Consultant has not, directly or indirectly, taken any action which is or constitutes a corrupt, fraudulent, collusive or coercive act or practice in violation of the Guidelines and is not subject to any conflict of interest as stipulated in the relevant section of the Guidelines.
- B) I certify that the Consultant has NOT been debarred by the World Bank Group for more than one year since the date of issuance of the Request for Proposals¹.
- C) I certify that the Consultant will not enter into a Sub-contract with an entity or individual which has been debarred by the World Bank Group for a period more than one year, unless on the date of the subcontract at least three (3) years have passed since the date of such debarment decision.
- D) I certify that the Experts of the Consultant and either Sub-consultant having a direct contract with the Consultant or Expert nominated by the Consultant, who are assigned to this contract on time basis, will not be engaged in any other assignment which may have time conflict with the Contract.
- E) I certify, on behalf of the Consultant, that if selected to undertake services in connection with the Contract, the Consultant shall carry out such services in continuing compliance with the terms and conditions of the Guidelines.
- F) I further certify, on behalf of the Consultant, that if the Consultant is requested, directly or indirectly, to engage in any corrupt or fraudulent action under any applicable law, such as the payment of a rebate, at any time during a process of consultant selection, negotiations, execution or implementation of contract (including amendment thereof), the Consultant shall report all relevant facts regarding such request to the relevant section in JICA (details of which are specified below) in a timely manner.

SMEC India Pvt. Ltd.
1st Floor, Novus Tower, West Wing,
Plot Number -18, Sector - 18,
Gurgaon - 122015, Haryana, India
T +91 124 450 1100 F +91 124 437 6018 E India@smecc.com
www.smecc.com




ISO 9001:2015 Certified Company
Regd. Office 507, Bhikaji Cama Bhawan,
Bhikaji Cama Place, New Delhi, 110066
T: 011-26178458, F: 011-26188247
CIN: U93000DL1997PTC088574



JICA's information desk on fraud and corruption (A report can be made to either of the offices identified below.)

(1) JICA Headquarters: Legal Affairs Division, General Affairs Department

URL: <https://www2.jica.go.jp/en/odainfo/index.php>

Tel: +81 (0)3 5226 8850

(2) JICA India office

16th Floor, Hindustan Time House

18-20, Kasturba Gandhi Marg,

New Delhi - 110 001

Tel:

The Consultant acknowledges and agrees that the reporting obligation stated above shall NOT in any way affect the Consultant's responsibilities, obligations or rights, under relevant laws, regulations, contracts, guidelines or otherwise, to disclose or report such request or other information to any other person(s) or to take any other action, required to or allowed to, be taken by the Consultant. The Consultant further acknowledges and agrees that JICA is not involved in or responsible for the selection process in any way.

- G) If any of the statements made herein is subsequently proven to be untrue or incorrect based on facts subsequently determined, or if any of the warranties or covenants made herein is not complied with, the Consultant will accept, comply with, and not object to any remedies taken by the Employer and any sanctions imposed by or actions taken by JICA.

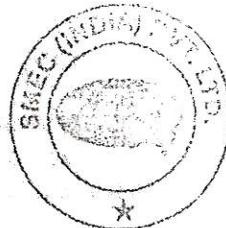

Authorized Signatory: _____

Name and Title of Signatory: Mr. Mallikarjunagowda Patil,
Head - Business Development

For and on behalf of the Consultant

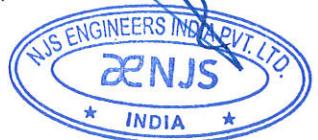
SMEC (India) Pvt Ltd

Date: 08.03.2019



ISO 9001:2015 Certified Company
Regd. Office 507, Bhikaji Cama Bhawan,
Bhikaji Cama Place, New Delhi, 110066
T: 011-26178458, F: 011-26188247
CIN: U93000DL1997PTC088574

Assistant Contracts Engineer
C.M.W.S.S. 314
Chennai-600 002.



SMEC India Pvt. Ltd.
1st Floor, Novus Tower, West Wing,
Plot Number -18, Sector - 18,
Gurgaon - 122015, Haryana, India
T: +91 124 450 1100 F: +91 124 432 6018 E: india@smecl.com
www.smecl.com

Form TECH-9: Acknowledgement of Compliance with the Guidelines for Employment of Consultants

- A) I, *Pradipto Sarkar, Regional Manager (South)* being duly authorized by *NJS Engineers India Private Limited "Consortium Partner"* ("Consultant") to execute this Acknowledgement of Compliance with Guidelines for Employment of Consultants, hereby certify on behalf of the Consultant and myself that all information provided in the Technical and Financial Proposals (collectively "Proposals") submitted by the Consultant for [*Loan Agreement No. ID-P267 and Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and up to Porur and all allied works*] (hereinafter called "the Project") is true, correct and accurate to the best of the Consultant's and my knowledge and belief. I further certify, on behalf of the Consultant, that:
- (i) the Proposals have been prepared and submitted in full compliance with the terms and conditions set forth in Guidelines for the Employment of Consultants under Japanese ODA Loans (hereinafter called the "Guidelines"); and
 - (ii) the Consultant has not, directly or indirectly, taken any action which is or constitutes a corrupt, fraudulent, collusive or coercive act or practice in violation of the Guidelines and is not subject to any conflict of interest as stipulated in the relevant section of the Guidelines.
- B) I certify that the Consultant has NOT been debarred by the World Bank Group for more than one year since the date of issuance of the Request for Proposals¹.
- C) I certify that the Consultant will not enter into a Sub-contract with an entity or individual which has been debarred by the World Bank Group for a period more than one year, unless on the date of the subcontract at least three (3) years have passed since the date of such debarment decision.
- D) I certify that the Experts of the Consultant and either Sub-consultant having a direct contract with the Consultant or Expert nominated by the Consultant, who are assigned to this contract on time basis, will not be engaged in any other assignment which may have time conflict with the Contract.
- E) I certify, on behalf of the Consultant, that if selected to undertake services in connection with the Contract, the Consultant shall carry out such services in continuing compliance with the terms and conditions of the Guidelines.
- F) I further certify, on behalf of the Consultant, that if the Consultant is requested, directly or indirectly, to engage in any corrupt or fraudulent action under any applicable law, such as the payment of a rebate, at any time during a process of consultant selection, negotiations, execution or implementation of contract (including amendment thereof), the Consultant shall report all relevant facts regarding such request to the relevant section in JICA (details of which are specified below) in a timely manner.



179



Registered Office:
CIN: U74210PN2007PTC129798
18, Shalish Society, Karvenagar, Pune 411052,
Phone: 020-60501963, Fax: 25459533, Email: puneoffice@njsei.com
Website: www.njsei.com

Assistant Contracts Engineer
C.M.W.S. 345
Chennai-600 002.

JICA's information desk on fraud and corruption (A report can be made to either of the offices identified below.)

- (1) JICA Headquarters: Legal Affairs Division, General Affairs Department
 URL: <https://www2.jica.go.jp/en/odainfo/index.php>
 Tel: +81 (03) 5226 8850

- (2) JICA India office
 16th Floor, Hindustan Times House
 18-20, Kasturba Gandhi Marg,
 New Delhi - 110 001
 Tel:

The Consultant acknowledges and agrees that the reporting obligation stated above shall NOT in any way affect the Consultant's responsibilities, obligations or rights, under relevant laws, regulations, contracts, guidelines or otherwise, to disclose or report such request or other information to any other person(s) or to take any other action, required to or allowed to, be taken by the Consultant. The Consultant further acknowledges and agrees that JICA is not involved in or responsible for the selection process in any way.

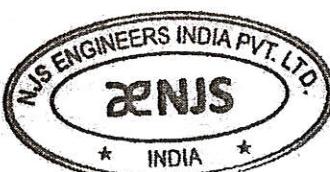
- G) If any of the statements made herein is subsequently proven to be untrue or incorrect based on facts subsequently determined, or if any of the warranties or covenants made herein is not complied with, the Consultant will accept, comply with, and not object to any remedies taken by the Employer and any sanctions imposed by or actions taken by JICA.



Authorized Signatory : _____

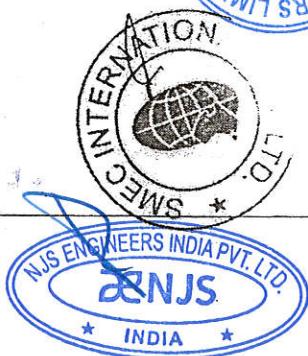
Name and Title of Signatory: Pradipto Sarkar,
 Regional Manager (South)

For and on behalf of the Consultant



NJS Engineers India Pvt Ltd

Date: 04.03.2019



180

CIN: U74210PN2007PTC129798

Assistant Contracts Engineer
 C.M.W.S.S. Board
 Chennai-600 002.

346



Form TECH-9: Acknowledgement of Compliance with the Guidelines for Employment of Consultants

- A) I, Mr. G.N. Virupaksha, Senior General Manager, being duly authorized by M/s. TATA Consulting Engineers Limited ("Consultant") to execute this Acknowledgement of Compliance with Guidelines for Employment of Consultants, hereby certify on behalf of the Consultant and myself that all information provided in the Technical and Financial Proposals (collectively "Proposals") submitted by the Consultant for [Loan Agreement No. ID-P267 and Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and up to Porur and all allied works] (hereinafter called "the Project") is true, correct and accurate to the best of the Consultant's and my knowledge and belief. I further certify, on behalf of the Consultant, that:
- (i) the Proposals have been prepared and submitted in full compliance with the terms and conditions set forth in Guidelines for the Employment of Consultants under Japanese ODA Loans (hereinafter called the "Guidelines"); and
 - (ii) the Consultant has not, directly or indirectly, taken any action which is or constitutes a corrupt, fraudulent, collusive or coercive act or practice in violation of the Guidelines and is not subject to any conflict of interest as stipulated in the relevant section of the Guidelines.
- B) I certify that the Consultant has NOT been debarred by the World Bank Group for more than one year since the date of issuance of the Request for Proposals¹.
- C) I certify that the Consultant will not enter into a Sub-contract with an entity or individual which has been debarred by the World Bank Group for a period more than one year, unless on the date of the subcontract at least three (3) years have passed since the date of such debarment decision.

D) I certify that the Experts of the Consultant and either Sub-consultant having a direct contract with the Consultant or Expert nominated by the Consultant, who are assigned to this contract on time basis, will not be engaged in any other assignment which may have time conflict with the Contract.

E) I certify, on behalf of the Consultant, that if selected to undertake services in connection with the Contract, the Consultant shall carry out such services in continuing compliance with the terms and conditions of the Guidelines.

I further certify, on behalf of the Consultant, that if the Consultant is requested, directly or indirectly, to engage in any corrupt or fraudulent action under any applicable law, such as the payment of a rebate, at any time during a process of consultant selection, negotiations, execution or implementation of contract (including amendment thereof), the Consultant shall report all relevant facts

TATA CONSULTING ENGINEERS LIMITED

NB 1502 & SP 1501, 15th Floor, Empire Tower, Cloud City Campus, Opp Reliable Tech Park, Thane - Belapur Road, Airoli, Navi Mumbai 400708
Tel: +91 22 2861 1141/1142/1143/1144/1145/1146/1147/1148/1149/1150/1151/1152/1153/1154/1155/1156/1157/1158/1159/1160/1161/1162/1163/1164/1165/1166/1167/1168/1169/1170/1171/1172/1173/1174/1175/1176/1177/1178/1179/1180/1181/1182/1183/1184/1185/1186/1187/1188/1189/1190/1191/1192/1193/1194/1195/1196/1197/1198/1199/1199PLC123018
Registered Office: Matunga Centre A, 249 Senapati Bapat Marg, Lower Parel (West), Mumbai 400013



regarding such request to the relevant section in JICA (details of which are specified below) in a timely manner.

JICA's information desk on fraud and corruption (A report can be made to either of the offices identified below.)

(1) *JICA Headquarters: Legal Affairs Division, General Affairs Department*
URL: <https://www2.jica.go.jp/en/odainfo/index.php>
Tel: +81 (0)3 5226 8850

(2) *JICA India office*
16th Floor, Hindustan Times House
18-20, Kasturba Gandhi Marg,
New Delhi - 110 001
Tel:

The Consultant acknowledges and agrees that the reporting obligation stated above shall NOT in any way affect the Consultant's responsibilities, obligations or rights, under relevant laws, regulations, contracts, guidelines or otherwise, to disclose or report such request or other information to any other person(s) or to take any other action, required to or allowed to, be taken by the Consultant. The Consultant further acknowledges and agrees that JICA is not involved in or responsible for the selection process in any way.

G) If any of the statements made herein is subsequently proven to be untrue or incorrect based on facts subsequently determined, or if any of the warranties or covenants made herein is not complied with, the Consultant will accept, comply with, and not object to any remedies taken by the Employer and any sanctions imposed by or actions taken by JICA.

G.N. VIRUPAKSHA

SENIOR GENERAL MANAGER

Authorized SIGNATORY

For and on behalf of M/s. TATA Consulting Engineers Limited

Date: 04.03.2019

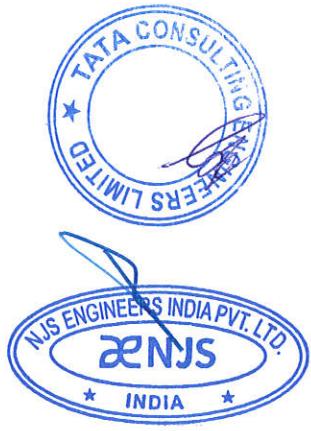


Assistant Contracts Engineer
C.M.W.S.B. Board
Chennai-600 003

182

348

Appendix J: Bid clarifications and Addendum



Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.



SUPERINTENDING ENGINEER
CONTRACTS & MONITORING

CHENNAI METROPOLITAN
WATER SUPPLY AND
SEWERAGE BOARD

Lr. No. CMWSSB/ CNT/ CON/DESAL /ICB/Gol/016 /2018-19

Dt: 11.12.2018

To

Sir,

Sub: CMWSSB - C&M Wing - Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works – Request For Proposal sent to the shortlisted consultants – Addendum - I forwarded - Reg.

Ref: Contract No. CNT/ CON/DESAL /ICB/Gol/016 /2018-19

-00o-

With reference to the above work, the Addendum - I has been prepared and enclosed herewith. You are requested to take these Addendum - I into due consideration while submitting your proposal. All the other terms and conditions already stipulated remain unaltered. The proposal submission deadline up to 3.00 P.M. on 21.01.2019.

You are requested to acknowledge the receipt of this Request for Proposal and Addendum - I to this office within three days of receipt this letter by email.

SUPERINTENDING ENGINEER (C&M)

- Encl : 1. Confirmation Letter – Pg. 2
2. Addendum - I - Pg.3



ADDENDUM

Name of Work: Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works

Tender No: CNT/ CON/DESAL /ICB/Gol/016 /2018-19.

-00o-

We have taken into due consideration of the Addendum while submitting our proposal.

Signature of Consultant

Name and address of Consultant



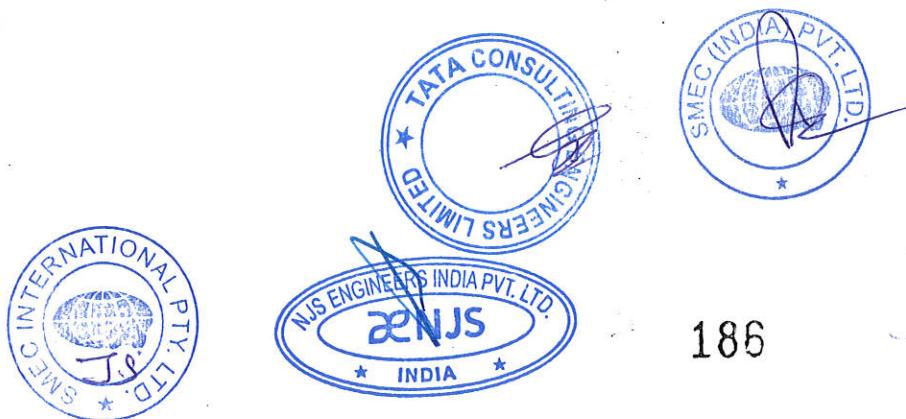
Name of Work: Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works

Tender No: CNT/ CON/DESAL /ICB/Gol/016 /2018-19

ADDENDUM

Sl. No	Reference in the Request For Proposal	As Existing	As Amended
1.	Section – 2: Data Sheet Instructions to Consultants, Paragraph Reference 2.4	A pre-proposal conference will be held: Yes Date, Time & Venue: 15.12.2018 on @ 11.0 hours CMWSS Board, No.1, Pumping Station Road, Chintadripet, Chennai 600 002.	A pre-proposal conference will be held: Yes Date, Time & Venue: 20.12.2018 on @ 11.00 hours CMWSS Board, No.1, Pumping Station Road, Chintadripet, Chennai 600 002.
2.	Section – 2: Data Sheet Instructions to Consultants, Paragraph Reference 14.4	Expected date (month/year) for public opening of Financial Proposals: 07.03 2019 at: CMWSS Board 1, Pumping Station Road, Chintadripet, Chennai 600 002 Tamil Nadu, India	Expected date (month/year) for public opening of Financial Proposals: March/ 2019 at: CMWSS Board 1, Pumping Station Road, Chintadripet, Chennai 600 002 Tamil Nadu, India
3.	Section – 2: Data Sheet Instructions to Consultants, Paragraph Reference 15.1	Expected date and address for contract negotiations: 22.03 2019 The Superintending Engineer (Contracts & Monitoring) Chennai Metropolitan Water Supply and Sewerage Board, No.1, Pumping Station Road, Chintadripet, Chennai 600 002, India.	Expected date and address for contract negotiations: March/ 2019 The Superintending Engineer (Contracts & Monitoring) Chennai Metropolitan Water Supply and Sewerage Board, No.1, Pumping Station Road, Chintadripet, Chennai 600 002, India.

Sd/11.12.2018
ENGINEERING DIRECTOR.i/c





CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD

No.1, Pumping Station Road, Chintadripet, Chennai - 600 002.

SUPERINTENDING ENGINEER
CONTRACTS AND MONITORING

Lr. No. CMWSSB/CNT/CON/DESAL /ICB/Gol/016 /2018-19

Dt: 18.01.2019

To:

M/s. SMEC International Pty Limited, Australia in consortium with
M/s.NJS Engineers India Pvt Ltd, Pune,
M/s.Tata Consulting Engineers Ltd, Navi Mumbai,
M/s.SMEC India Pvt Ltd, Haryana

Sir,

Sub: CMWSSB - C&M Wing - Contract - Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works – Request for Proposal called for - Pre – bid meeting conducted – Replies to Queries - I & Addendum - I forwarded - Reg.

Ref: Contract No. CNT/CON/DESAL /ICB/Gol/016 /2018-19

-00o-

With reference to the above work, the replies to queries - I & addendum - I raised during pre bid meeting have been prepared and enclosed herewith. You are requested to take these Replies to Queries - I & Addendum - I into due consideration while submitting your Request for Proposal. All the other terms and conditions already stipulated remain unaltered.

You are requested to acknowledge the receipt of this tender.

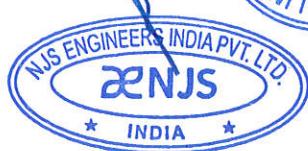
letter
SUPERINTENDING ENGINEER(C&M)

- Encl : 1. Confirmation Letter – Pg. 2
2. Replies to queries - I – Pg. 3 to 26
3. Addendum – I - Pg.27 to 32
4. Annexure A – Pg.33
5. Annexure I to IV – Pg.34-37



5 187

SL
Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.



REPLIES TO QUERIES - I & ADDENDUM - I

Name of Work: Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works

Tender No: CNT/CON/DESAL/ICB/Gol/016/2018-19

-00o-

We have taken into due consideration of the Replies to Queries - I & Addendum - I while submitting our Proposal.

Signature of Bidder

Name and address of Bidder



188

D
Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.



SNL
Engineering Services
Limited

PRE-BID MEETING QUERIES

Name of Work : Consultant for Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works

Contract No: CNT/CON/DESAL/ICB/GOI/016/2018-19.

Sl. No.	REFERENCE	DESCRIPTION	Replies to Queries			
			REQUEST FOR CLARIFICATION/ CONFIRMATION		REPLY BY CMWSSB	
1	Section 2, Instructions to Consultant, Clause 2.4, page-7	The Consultants should familiarize themselves with the local conditions relevant to the Services and take them into account in preparing their Proposals,	It is requested consultant to make a site visit to the proposed plant location and existing 100MLD location	CMWSSB arrange/provide permission to Site Visit Arranged on 27.12.2018		
2	Section 2, Instructions to Consultant, Clause 3, One a Sub-consultant in one proposal, may participate in other proposals. Only in that capacity.	A Consultant (including its affiliate), if acting in the capacity of One a Sub-consultant in one proposal, may participate in other proposals. only in that capacity.	In order to have a fair competition, can CMWSSB restrict the participation of sub consultant in one proposal as the present clause allows participants who have been disqualified to participate	Bid Conditions are Confirmed		
3	Section 2, Instructions to Consultant, Clause 9, Preparation of Proposals -Specific Considerations.	9.1(ii) When associating with non-shortlisted firms in the form of a joint venture or a sub-consultancy, the shortlisted Consultant shall be a lead member.	Non Shortlisted consultant means, the consultants those are not participated in EOI stage. Is it appropriate to allow them to participate in RFP stage? Kindly specify the number of members allowed in a Joint Venture?	No Restrictions on number of Joint Venture. Please refer Bid Conditions are Confirmed		
4	Section 2, Instructions to Consultant, Clause 9, page 16 Proposal -11.1(9), page 16	For remuneration related costs, for evaluation purposes only, if the so proposed number of man-months and the number of the minimum man-months. Such an adjustment will be made for each of the international Experts and local Experts through adding the amount obtained as follows: $Aad = (Mmin - Mpro) \times RRh$ where : Aad : Amount Adjusted Mmin: Minimum number of man-months as specified in DS 11.1 (i) Mpro: Number of man-months proposed RRh : The highest remuneration rate per month in each Category (international or local Experts)	For remuneration related costs, for evaluation purposes only, if the clause indicates that the consultant should follow the minimum man months criteria given in the Data sheet and the Financial Proposal will be evaluated based on minimum man-months for each expert. However referring to the data sheet-11.1(i), page 25, there are no minimum man-months specified for each expert and hence we request you to specify the minimum man-months for each IE, LE are provided. $Aad = (Mmin - Mpro) \times RRh$ where : Aad : Amount Adjusted Mmin: Minimum number of man-months as specified in DS 11.1 (i) Mpro: Number of man-months proposed RRh : The highest remuneration rate per month in each Category (international or local Experts)	Total Minimum Manmonths for IE, LE are provided.		

189



Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.

Sl.	REFERENCE	DESCRIPTION	REQUEST FOR CLARIFICATION/ CONFIRMATION	REPLY BY CMWSSB
5	ITC Data sheet- 1.(n), page 24	The consortium agreement should be registered in Chennai as per the Registration Act, Rules and Conditions, Registration Department after award of contract before execution of the agreement so as to legally valid and binding on partners, and the registration fee required for the registration of the Consortium/Joint venture agreement should be borne by the bidder. (Presently about 1% of the contract value is charged for registration of the documents, however Bidder may confirm the same with Registration Department)	As per bids by international funding of JICA, clause for registering JV shall is not applicable for Consultancy Services. We therefore request you to modify the said clause	Please refer Article 5(J) of Schedule I of Indian Stamp Act 1889 and Judgement on WA 1742/2018, CMP 13925/2018 of Hon'ble High Court of Madras
6	ITC Data Sheet-Clause 8.1, Data sheet, Page 25	Replies to clarifications shall be given not later than 10 (ten) days before submission deadline date	Sufficient time would be provided to the consultants to incorporate the changes required after last clarifications issued upto 21.02.2019.	Please refer Sl.No. 1 of Addendum
7	Clause 11.1 (i), Data Sheet, Page 25 Clause 5, Section 5, TOR, Page 84	International Experts : 385 Man-Months Local Experts: 883 Man-Months Total: 1268 Man-Months Supporting Staff Manmonth:654 MM	For the purpose of evaluation and fair competition, please specify the minimum input months for International and local Experts envisaged for each position so that each consultant will be at par.	Bid Conditions are Confirmed. Please refer Answer to Query No.4
8	Clause 14.6 (i), Page 34	Due date of Exchange Rates is: Date of opening of Technical Proposal (Proposal Submission Date)	We request to indicate the cutoff date for the exchange rate for currency conversion. We suggest considering 28 days or 14 days prior to bid submission date.	Please refer Sl.No.2 of Addendum
9	Appendix- Preparing Proposal Forms FIN-5, Page 64	Instructions for Forms FIN-1 to FIN-5 must be completed and submitted to the Client in hard and soft copies, strictly in accordance with the instructions.	Please confirm whether Soft copies of Financial Proposal are to be submitted, as Data Sheet Clause 12.3 indicates Hard copies only.	Bid Conditions are Confirmed. Please refer Sl.No.3 of Addendum
10	Clause 12.1, Data Sheet, Page 26	CMWSSB will not be responsible for Delay in receipt of CMWSSB proposal through Mail (ie., Courier, Speed Post)	We presume, apart from the mentioned mode of submission ((ie., Courier, Speed Post) proposal delivery by Hand / Physical submission is also acceptable. Kindly confirm.	Yes, Please refer ITC Clause 12.1 (Page No.17)



190

Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.

Sl. No.	REFERENCE NUMBER	DESCRIPTION	REQUEST FOR CLARIFICATION/ CONFIRMATION	REPLY BY CMWSSB
11	Clause 14.2, Data Sheet, Project Manager (International Expert) Point 1, Page 26-27, Minimum educational qualification and Discipline: Graduate in Civil Engineering	Desired Qualification criteria over all experience of the proposed staff	Considering the complexity of multidiscipline (Civil, Plants, pipeline, etc.) involvement in this assignment Post Equipment, Expert with Civil/Mechanical/ Chemical Engineering degree should also be permitted. Please confirm.	Please refer Sl.No.4 of Addendum
12	Clause 14.2, Data Sheet, Project Manager (International Expert) Point 2, Qualification criteria Desired Qualification criteria over all experience of the proposed staff	Desalination Expert (International Expert), Minimum educational qualification and Discipline: Graduate in Civil Mechanical or Electrical Engineering	Since the expert should be thorough with desalination process, we suggest to consider the chemical engineering apart from Civil, Mechanical, or Electrical Engineering as mentioned in the RFP	Please refer Sl.No.4 of Addendum
13	Clause 14.2, Data Sheet, Project Manager (International Expert) Point 7 & 8, Page 27, Qualification criteria Desired Qualification criteria over all experience of the proposed staff	Contract Specialist (Desal) (International Expert), Minimum educational qualification and Discipline: Graduate in Civil Engineering – Contract Specialist (Distribution) (International Expert) Minimum educational qualification and Discipline: Graduate in Civil Engineering	As the Expert with LLB Discipline with similar experience in PPP Bid Conditions are Confirmed. We request you to kindly modify minimum educational qualification and Discipline to "Graduate in Civil Engineering or Civil Engineering"	
14	Page.No.27, Clause Qualification Criteria	14.2, For Key Experts : Qualification and Expertise Required: 7. Contract Expert (Desal) – International Expert 8. Contract Expert (Distribution) –International Expert	As Contract Experts Experiences on externally funded projects or FIDIC Contracts will be more relevant than his experience on projects with same technical specifications. We request to remove the experience requirement with respect to Desalination Plant, reservoirs etc.	Bid Conditions are Confirmed.
15	Clause 14.2, Data Sheet, Project Manager (International Expert) Point 7 & 8, Page 28, Qualification criteria Desired Qualification criteria over all experience of the proposed staff	Contract Specialist (Desal) (International Expert), Minimum educational qualification and Discipline: Graduate in Civil Engineering – Contract Specialist (Distribution) (International Expert) Minimum educational qualification and Discipline: Graduate in Civil Engineering	As the contract packages commence sequentially, we Bid Conditions are Confirmed. Hence we request you to allow consultant to propose one candidate for point 7 & 8 position, if the candidate meets the Expertise requirement as per RFP. Kindly give your concurrence	

Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.

Sl. No.	REFERENCE	DESCRIPTION	REQUEST FOR CLARIFICATION/ CONFIRMATION	REPLY BY CMWSSB
16 Clause 14.2, Data Sheet, Note : The International Experts (IE) is the person experience of working in Developed and Developing Countries.....		Request you to provide list of Developed and Developing Countries. Currently list of Developing/ developed countries list varies as per agencies reports. Please suggest the complete list of countries included under Developed or Developing category		Please refer the website of World Bank list www.worldbank.org
17 Clause 14.2, Data Sheet, I. Specific Experience of the Design, Bid Documents, Evaluation of Bid Documents and international projects (either in developing or developed countries as the basic technology is same SWRO) with various International Projects means the assignment, Sub Point plant (All those plants commissioned during the last 10 years capacities as per criteria (i) holds good to demonstrate their Project executed in Developed period and functioning satisfactorily for at least one year will be taken into account for evaluation) 4 Points > 200 MLD - 4 100 - 200 MLD- 3 40 - 99 MLD- 2		We understand that a consultant with Experience on the Bid Conditions are Confirmed. We understand that a consultant with Experience on the Bid Conditions are Confirmed.	(i) Experience of International Projects in Preparation of Design, Bid Documents, Evaluation of Bid Documents and international projects (either in developing or developed countries as the basic technology is same SWRO) with various International Projects means the assignment, Sub Point plant (All those plants commissioned during the last 10 years capacities as per criteria (i) holds good to demonstrate their Project executed in Developed period and functioning satisfactorily for at least one year will be taken into account for evaluation) 4 Points > 200 MLD - 4 100 - 200 MLD- 3 40 - 99 MLD- 2	
18 Clause 14.2, Data Sheet, I. Specific Experience of the Consultancy firm related to the assignment, Sub Point (i) (iii) (iv), Page 29		(ii) Experience of Desalination Countries in Preparation of Design, Bid Documents, Evaluation of Bid Documents and Design, Bid Documents, Evaluation of Bid Documents and PMC of Construction Management and Supervision of SWRO plant (All those plants commissioned during the last 10 years capacities as per criteria (ii) holds good to demonstrate their Project executed in Developed period and functioning satisfactorily for at least one year will be taken into account for evaluation) 4 Points > 200 MLD - 4 100 - 200 MLD- 3	(iii) "Experience of Desalination Projects in Preparation of Design, Bid Documents, Evaluation of Bid Documents and Design, Bid Documents, Evaluation of Bid Documents and PMC of Construction Management and Supervision of SWRO plant (All those plants commissioned during the last 10 years capacities as per criteria (iii) holds good to demonstrate their Project executed in Developed period and functioning satisfactorily for at least one year will be taken into account for evaluation) 4 Points > 3 or more projects - 4 Marks 2 projects - 3 Marks 1 project - 2 Marks per Project	As most of the items and requirement such as Plant, Pipeline, Yes, it will be considered. etc are interconnected with an assignment. If an assignment contains both the components, we request you to consider allow the repetition of assignment experience for desalination plant and its transmission main to meet the criteria (i) and (ii) and similarly (iii) and (iv). Kindly confirm.

D
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Sl. No.	REFERENCE	REQUEST FOR CLARIFICATION/ CONFIRMATION	REPLY BY CMWSSB															
193	<p>Comparing Clause 14.2, Data Sheet 3, Page 27, At least three experiences of water supply projects involving planning or design of water distribution network criteria</p> <p>Desire Qualification and At least two water supply projects involving planning or design of water loss reduction program over all experience of the proposed staff</p> <p>Clause 14.2, Data Sheet, III. Key Experts Qualification and Competence for the Assignment, Point III, B. Adequacy for the Assignment point B, sub Point (i) table,</p>	<p>At least 10 years' experience in water supply projects</p> <p>At least three experiences of water supply projects involving planning or design of water distribution network</p> <p>At least two water supply projects involving planning or design of water loss reduction program</p>	<p>Comparing the Experience required given in the table, we think the experience of water supply expert is planned for Transmission and water distribution network planned in CP2 & CP4 and Water Supply expert involve in potable water storage and pumping station in CP1 for further transmission. In this context, water supply expert experience shall be exempted from the Desalination Plant experience. Hence we request you to kindly modify the table to :</p> <table border="1" data-bbox="472 518 763 1117"> <thead> <tr> <th>Sl. No</th> <th>Key Experts</th> <th>Plant</th> <th>Reservoir</th> <th>Adequacy</th> </tr> </thead> <tbody> <tr> <td></td> <td>D TA SV</td> <td>D TA SV</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>Water Supply Engineer - International Expert</td> <td>✓ ✓ ✓</td> <td></td> <td></td> </tr> </tbody> </table>	Sl. No	Key Experts	Plant	Reservoir	Adequacy		D TA SV	D TA SV			4	Water Supply Engineer - International Expert	✓ ✓ ✓		
Sl. No	Key Experts	Plant	Reservoir	Adequacy														
	D TA SV	D TA SV																
4	Water Supply Engineer - International Expert	✓ ✓ ✓																
20	<p>Comparing Clause 14.2, Data Sheet, III. Key Experts Qualification and Competence for the Assignment, Point III, B. Adequacy for the Assignment point B, sub Point (i) table, Sl No.10, page 31</p>	<p>(i) Experience of Key Experts in Desalination Plant of minimum capacity 40 MLD & Reservoirs</p>	<p>We think that sl.no 10 position belongs to Contract Specialist (Desal), as the position seeks experience in desalination plant. Please confirm.</p> <table border="1" data-bbox="917 1168 1175 1758"> <thead> <tr> <th>Sl. No</th> <th>Key Experts</th> <th>Plant</th> <th>Reservoir</th> <th>Adequacy</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>Contract Specialist (Distribution) - International Expert</td> <td></td> <td>✓ ✓</td> <td></td> </tr> </tbody> </table>	Sl. No	Key Experts	Plant	Reservoir	Adequacy	10	Contract Specialist (Distribution) - International Expert		✓ ✓						
Sl. No	Key Experts	Plant	Reservoir	Adequacy														
10	Contract Specialist (Distribution) - International Expert		✓ ✓															
21		<p>Familiarity with the language and the conditions of the Country, Point C, Page 32</p>	<p>Please elaborate on Similar Environments/Country. We think Yes, Bidder's understanding is correct.</p> <p>Bid Conditions are Confirmed.</p>															



Sl. No.	REFERENCE	DESCRIPTION	REQUEST FOR CLARIFICATION/ CONFIRMATION	REPLY BY CMWSSB
22	Fin-2, Grand Summary of Costs, Page 55	<p>Sl. No Name of the Activity</p> <p>A Consultancy services to prepare Conceptual Design, Bid Documents and Evaluation of Bids (Bid processing), Construction Management and Supervision for Construction of 400MLD capacity Sea Water Reverse Osmosis Desalination plant including Commissioning Period.</p> <p>B Consultancy services to prepare Detailed Design, Bid Documents and Evaluation of Bids (Bid processing); Construction Management and Supervision for Construction of Pumping Stations and Reservoirs including Defect Liability Period.</p> <p>C Consultancy services for Carrying out Construction Management & Supervision for Installation of Product/Water Transmission Main Defect Liability Period.</p> <p>D Consultancy services to prepare Detailed Design, Bid Documents and Evaluation of Bids (Bid processing), Construction Management and Supervision for Improvement of the Existing Water Distribution Networks Defect Liability Period.</p>	<p>i. We understand that the Sl.No. A, B, C and D shall be inline with the Scope of work (CP1 to CP5) mentioned in Clause 3 of Section 5 of TOR. So that the scope will be clear for the financial bidding of each contract package. Accordingly it is requested to update the Fin2-A, B, C, D and F need to be added for CP5.</p> <p>ii. Since this is a Time and Expense Based Contract, the activity wise split is not required. Hence we suggest to adopt the FIN 2 as per JICA standard Bid document, which provides breakup of total Remuneration and Reimbursable Expenses for entire project.</p> <p>iii. Referring to the FIN 2 A,B,C,D, it is to be noted that some of the expenses such as Transportation, office rent, office furniture etc. are common for all packages. Hence all reimbursable can be brought under one section.</p>	<p>Grand Summary Fin-2 in Pg No.54 is Deleted. Please Refer Sl.No.6 of Addendum</p>
23	Fin-2, Grand Summary of Costs, Page 55	<p>For Consultancy in Preparation of Design, Bid Documents & Evaluation of Bids, Construction & For Carrying out PMC in Construction & Commissioning of the Product Water Transmission</p>	<p>Considering the huge volume of work and time period request you to kindly include the Survey and Software Included Provisional Sums. Also Local Taxes, Contingency and Provisional sum should be Bid Conditions are Confirmed.</p>	<p>Survey and Software Included in Form FIN 2</p>

Sl. No.	REFERENCE	DESCRIPTION	REQUEST FOR CLARIFICATION/ CONFIRMATION	REPLY BY CMWSSB
24	Fin-5 Clause 6 (i), Page 65 The cost of training of the Client's staff is identified, only if training is a major component of the assignment, specified as such in the TOR.....	Training to the staff would be provided by consultant. However, we presume all expenses related to Study Trip, Boarding and Lodging, Training Materials, Travelling, arranging the venue/workshops for the training would be arranged by client. Please provide us the no of Training expected. However the on-job training will be included by Consultant as it will be at project site. Please elaborate the requirement including number of participants and number of training to be conducted.	Please refer TOR.
25	Fin-5, Clause 6 (iv), Page 65	For International Experts spending twenty-four (24) consecutive months or more in the Client's country, one extra round trip will be reimbursed for every twenty-four (24) months of assignment in the Client's country.	As per our experience in other projects, an international expert generally doesn't spend 24 months at a stretch, we request you to allow one Trip for every 12 Months to his home country. Kindly modify the clause	Bid Conditions are Confirmed.
26	Fin-1 Financial Submission Form, Clause 6 (iv), Page 65	Amounts must coincide with the ones indicated under Total in Form FIN-2. This amount is inclusive of the local indirect taxes, which shall be confirmed during negotiations, and included in the Contract price.	As per the FIN-1 note it is clear that Contingencies @ 5% and Provisional Sums are not part of competitive prices for Provisional Sums are not part of provisional prices. evaluation. Kindly confirm. We suggest that workshops, seminar, any survey, software should be included under provisional sum.	Contingencies @ 5% and Provisional Sums are not part of competitive prices for Provisional Sums are not part of provisional prices. Please refer Sl.No.6 of Addendum
27	CP3, Section 5, TOR, Page 71	CP 2, Construction of pumping stations and reservoir - International Competitive Bid (ICB) with P/Q - Single-Stage Two-Envelope - Design-Bid-Build contract - JICA's Standard Bidding Document "Works"	We understand that it is a D&B contract and consultant would not involve in Design and PMC work for this. Please confirm.	Please refer TOR 3.1 (Page No.73, 74) Bid Conditions are Confirmed.
28	CP5, Section 5, TOR, Page 71	CP 5, Installation of transmission line external power - Local Competitive Bid (LCB)	It is not clear who is responsible for the extension of power line from power source to Plant, also we understand that Designing is not part of consultants scope. Kindly confirm.	The work of Installation of External power Transmission Line is to be implemented by the State Electricity Board and the Scope under this consultancy shall be referred in TOR - Scope of Consultancy Services to CP5 (Pg.81). Yes, Bidder's understanding is correct. Design is not a part of the Consultancy Services.

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Sl. No	REFERENCE	DESCRIPTION	REQUEST FOR CLARIFICATION/ CONFIRMATION	REPLY BY CMWSSB
29	Clause 2, Objective of the project information, TOR, Page 72	Kindly share the report on the "Preparatory Survey for Chennai Seawater Desalination Plant Project" is available at CMWSSB. Also, the natural condition survey results implemented by CMWSSB are available as below	Kindly share the report with consultants for better understanding of the preparatory works carried out by CMWSSB. This will also assist in assessing further surveys and investigations.	Reports available CMWSSB will be made available to the successful Bidder.
30	Clause 3.1 , Design work(j) (CP1, CP2 and CP4), TOR, Detailed Design CP4, point], Page 74	Hydraulic analyses of the water distribution network to determine the scope of the improvement of the existing water distribution network	As per our Experience Field Calibration is done by contractor. Is part of consultant's scope. Kindly Clarify.	Bid Conditions are Confirmed.
31	Clause 3.4 , Construction supervision (CP1, CP2, CP3 and CP4), TOR, point p, Requirements, Page 77	Inspect the construction method, equipment to be used, and workmanship at the site, and attend shop inspection and manufacturing tests in accordance with the Employer's Requirements;	We understand that Consultants Scope is to witness the shop test and cost of the inspection, Testing and all other to be borne by Contractor.	Yes, Bid Conditions are correct. Bid Conditions are Confirmed.
32	Clause 3.4 , Construction supervision (CP1, CP2, CP3 and CP4), TOR, point aa, Page 77	Review of entire alignment of transmission main in terms of hydraulic, geo-technical aspects and flag any potential delays in obtaining permissions particularly on stretches pertaining to NHAI and Railways.	We understand that Consultant need to assist the client for approval, but approvals should be taken by the client from NHAI and Railways. Please confirm.	Yes, Bidder's understanding is correct. Bid Conditions are Confirmed.
33	Clause 4 Period of assignment and schedule for completion of Feb 2019 to Oct 2019 task, page 83	Conceptual Design, Preparation of Bid Documents for CP1	As per the ITC Data sheet, clause 17.2,page 35, the commencement date of consulting services shall be 21 May 2019. Please correlate these two dates.	Time Duration of each activity is fixed. Schedule activity to commence after award of work.
34	Clause 6.2c, SCC, Page 135	Price Adjustment for Local and Foreign Currency	Considering the Inflation and other Economic factors not in consultants. We request you to provide minimum 8% escalation for every 12 months period. As the same has been a practice for other tenders funded by JICA.	Bid Conditions are Confirmed.
35	Page No.84, Consulting Experts	List of Table – List of Consulting Experts	We request to indicate the Criteria (Qualification(Experience) and minimum Manmonths required to keep parity among all the consultants. Further kindly confirm whether the CVs of non key staff as mentioned in the table "List of Consulting Experts" should also be included in the bid	Relevant Field experience as per TOR.5 is expected for all the non key experts. Please refer answer to Query No.4.
				CVs of all the IE/LE are to be included in the bid.



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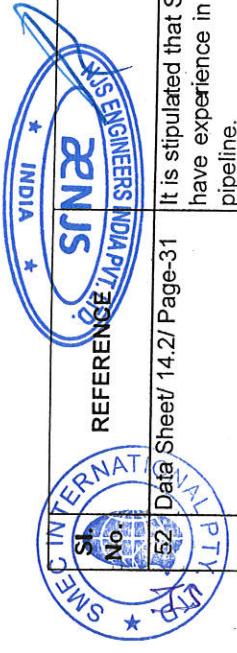
REFERENCE SINCE No.	DESCRIPTION	REQUEST FOR CLARIFICATION/ CONFIRMATION	REPLY BY CMWSSB
36 Page.93, SI.No.6, Services and Facility	i. Consultants have to make their own arrangement for office accommodation and equipment, software and stationery for the consultancy study.	Kindly indicate the preferred location of Office to be established	It is left to Consultant Choice (Anywhere in Chennai)
37 Clause 5, Staffing, Table, No.19, Page 84	Professional type : International Expert Social Communication Specialist	As the expert should be familiar with local conditions in India and also need to have communication with all stakeholders of Staffing - Table, LE SI.No.17 concerned. We suggest that Local Expert would be in a best fit to do that hence we request you to consider local expert for this position.	Please refer TOR Clause 5, Local Expert is also included. Bid Conditions are Confirmed.
38 Clause 9,, Mode of Billing and Payment, Page 97 Advance Payment of 5% as The advance payment will be set off by the Client after completion of 30% of contract amount paid or after 12 months of the duration of the contract whichever is earlier....	In line with many Multilateral funding agencies including JICA Bid Conditions are Confirmed. We request for advance payment of 10% instead of 5% to ease out the cash flow while mobilising the key experts, as you are seeking BG against it. It is also request for set off the advance payment by client after completion of 24 months of the duration, as the 12 months is shorter duration.	
39 Page.No.97, payment Consultancy Svices	SI.No.9, Payment towards Consultancy Services	For the payment towards consultancy services in Preparation of Design, Bid Documents, Tender Assistance (Evaluation of Bids), Construction Management and Supervision, the Consultant shall submit to the Client, in duplicate, itemized invoices, accompanied by the receipts or other appropriate supporting documents not later than fourteen (14) days after the end of every two (2) calendar month during the period of the Services. Separate invoices shall be submitted for expenses incurred in foreign currency and in local currency. Each invoice shall show remuneration and reimbursable expenses separately.	To ensure sufficient cash flow to the Consultancy services and smooth operations, we request to modify the clause as below in order to facilitate monthly invoicing: "For the payment towards consultancy services in Preparation of Design, Bid Documents, Tender Assistance (Evaluation of Bids), Construction Management and Supervision, the Consultant shall submit to the Client, in duplicate, itemized invoices, accompanied by the receipts or other appropriate supporting documents not later than fourteen (14) days after the end of every calendar month during the period of the Services. Separate invoices shall be submitted for expenses incurred in foreign currency and in local currency. Each invoice shall show remuneration and reimbursable expenses separately". Since it is Time and Expense Based Contract, monthly invoicing facilitate smooth operations.
40 Page.No.97, SI.No.9, Mode of Billing and Payment	Retention Money	The payment amount of 5% of the contract value will be retained as Retention Money from each payment due to the contractor which will be paid to the consultants without interest money on completion of the work including Defect Liability Period.	Retention money is generally applicable to contractors while in Bid Conditions are Confirmed.

Sl.	REFERENCE	DESCRIPTION	REQUEST FOR CLARIFICATION/ CONFIRMATION	REPLY BY CMWSSB
41	Page No 134, Performance Guarantee Page 128	Contract Bank Performance Bank Guarantee from any Scheduled/Nationalized Bank for the value computed at One percent (1%) of the consultancy value before signing the agreement which shall be valid up to one year beyond the date of completion of consultancy contract period.	Since we are providing BG, PG is not required. Please consider it.	Bid Conditions are Confirmed.
42	Clause 6.5, point c, SCC, Page 128	Client shall pay the Consultant's invoices within fifty-six (56) days after the receipt by the Client of such itemized invoices with supporting documents....	We request that keeping cash flow into consideration 56 days is too long time to realise the consultant payments, as majority of key staff deployed on monthly basis Hence we request you to kindly Consider 2 to 4 weeks' time for the payment by client.	We request that keeping cash flow into consideration 56 days is long Bid Conditions are Confirmed.
43	Clause 6.5, point d, SCC, Page 129Client as satisfactory eighty-four (84) days after receipt of the final report and final invoice by the Client unless the Client, within such eighty-four (84) day period, gives written.....	We request you to kindly Consider 30 days as 84 days is long time.	We request you to kindly Consider 30 days as 84 days is long Bid Conditions are Confirmed.
44	Clause 5, Staffing, TOR, Page 84	General	If the delay of the project is due to the reason beyond consultants' control, we presume remuneration for the personnel's deployed by consultants during that period would be paid by Client.	If the delay of the project is due to the reason beyond the Yes, Bidder's understanding is consultants' control, we presume remuneration for the correct personnel's deployed by consultants during that period would be paid by Client.
45	Clause 5, Staffing, Table, Prof.Type, TOR, Page 84	Pro.Type : LE from Serial No 1 to 21	Education Qualification, number of years of experience and relevant experience for the experts beside Key experts is missing in RFP. Request you to kindly provide the same.	Education Qualification, number of years of experience and Please refer answer to Query No.35
46	Page No.139, Conditions of Clause 6.5 (e)	Special Contract, For Foreign Currency : [Insert Account] For Local Currency : [Insert Account]	We request to revise as below: The Accounts are (For Single or for Individual Partner of JV / For Foreign Currency : [Insert Account] / For Local Currency : [Insert Account]) This is required as CMWSSB is indicating that GST is exempted for this assignment. If the payment is done to a single (JV / Lead Partner) account then inter – company invoicing will attract GST which CMWSSB either need to reimburse or payment GST Reimbursement towards Inter-company invoicing will not be considered.	Payment will be made to the Account of the Individual members of the Joint Venture/Consortium as per the invoice submitted by the Lead Member.



Sl. No.	REFERENCE	DESCRIPTION	REQUEST FOR CLARIFICATION/ CONFIRMATION	REPLY BY CMWSSB
47	Section-2/11-a: Taxes/Page-16 Form -Fin 2 A, B, C & D/ Page-56-59	Any local taxes will be excluded at financial evaluation The Financial Form 2, all sections have consideration for local tax;	Request to clarify whether Local taxes needs to be computed separately. But will be excluded for evaluation. After Contract Negotiations, the Local/Indirect Taxes will be reimbursed as per the Actuals subject to a maximum of negotiated amount of Local/Indirect Taxes.	Yes, Local Taxes to be mentioned separately. But will be excluded for evaluation. After Contract Negotiations, the Local/Indirect Taxes will be reimbursed as per the Actuals subject to a maximum of negotiated amount of Local/Indirect Taxes. Also refer Sl.No.6 of Addendum
48	Data Sheet/ 11.1(i)/Page-25	Data sheet has mentioned about per diem. However, Form FIN-CMWSSB is requested to clarify whether consultant can include per diem in FIN-5, as will be applicable.	Please refer Sl.No.6 & 7 of Addendum	
49	FIN-5/4 Page-62-63	General	The scope of works as specified in ToR includes survey and investigation works. However, FIN-5 does not have any indication of the same. Alternatively, CMWSSB may include provisional sum for survey and investigation works, which will be paid to the consultant as per actual. CMWSSB is requested to clarify.	Please refer Form FIN-2, Survey is Included.
50	Data Sheet/- 11.1(ii)c/ Page-26	Amount of provisional sum is kept blank for both foreign and local currencies	CMWSSB is requested to specify the amount of provisional sum in both FC and LC, if applicable, to be quoted by all the bidders.	Please refer Sl.No.8 of Addendum
51	Data Sheet/- / Page-31-34	There are some discrepancies in qualification requirements as stipulated in Data Sheet and ToR, as follows:	CMWSSB is requested clarify on the discrepancies.	Please refer Sl.No.9 of Addendum
	Section-5-ToR/ 5/ Page-85- 86	- A2-Desalination Expert (IE) – capacity of desalination plants 40MLD or more for evaluation in data sheet but 50 MLD or more in ToR - A5-Mechanical Engineer (Desal) (IE) – capacity of desalination plants 40MLD or more for evaluation in data sheet but 20 MLD or more in ToR - A7-Desalination Expert (IE) – capacity of desalination plants 40MLD or more for evaluation in data sheet but 20 MLD or more in ToR		

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Chennai-600 002.



REFERENCE

REQUEST FOR CLARIFICATION/ CONFIRMATION

REPLY BY CMWSSB

DESCRIPTION	REQUEST FOR CLARIFICATION/ CONFIRMATION	REPLY BY CMWSSB				
52 Data Sheet/ 14.2/ Page-31	It is stipulated that Senior Civil Engineer – Local Expert should have experience in Desalination Plant, besides reservoir and pipeline.	For CP1 civil and structural design and supervision related work, there is a position of A4, Civil and Structural Engineer (Desal)-International Expert, who will necessarily have experience in civil and structural design and construction. Requesting CMWSSB to delete the requirements of desalination plant experience for Senior Civil Engineer – Local Expert.				
53 Data Sheet/ 14.2/ Page-31	It is stipulated that Contract Specialist (Distribution) – International Expert should have experience in Desalination Plant, besides reservoir and pipeline.	As per page 89 of ToR, Contract Specialist (Distribution) – International Expert is not involved in CP1 contract. Therefore, CMWSSB is requested to delete the requirements of desalination plant experience for this position.				
54 Section 5-ToR/11.3/ Page-69	Even after implementation of the above water supply augmentation on projects there is still a demand supply gap of about 450 MLD now.	Kindly confirm whether 450 MLD water supply demand gap is for present year i.e. 2018?				
55 Section 5-ToR/2/ Page-70	The Project aims to deliver an additional water production of 400 MLD by seawater desalination for the CMA and improve the efficiency of the existing water distribution network in the Chennai Core City, the central area of the CMA	It is understood from the ToR that there is a shortfall of water supply of 450 MLD for the CMA. However, 400 MLD treatment is Proposed. facility will be constructed under this assignment. Please clarify whether any other project for balance 50 MLD has been planned for the CMA?				
56 Section 5-ToR/2 (c)/ Page-70	Installation of a Product Water Transmission Main from the 400 MLD Desalination Plant to the Headworks at Porur.	It is understood that the distance of Headworks at Porur from 400 MLD SWRO plant at Perur is 65.3 km. Please confirm. Also, please confirm the distance of 400 MLD SWRO plant at Approx. Intake Length: 1140 M. Perur from the Seawater intake facilities.				
57 Section 5-ToR/2 (d)/ Page-70	Improvement of the existing water distribution networks in the Chennai City.	Kindly specify the area of Chennai city with population and wards which will be covered under this assignment. Also, kindly provide some technical details of the existing water supply system to be included and revamped under this assignment to understand the project.				
58 Section 5-ToR/ 2/ Page-70	In the table following construction items are mentioned for CP-2 and CP-3:	We understand, construction item for CP-2 and CP-3 will be as follows: <table border="1"> <tr> <td>b) Construction of Pumping Stations and Reservoirs</td> <td>- Perur UGT of Capacity of 9 ML (4 Cells)</td> </tr> <tr> <td>c) Construction of product water transmission pumping station on the premises of the Perur DSP</td> <td>- Perur UGT of Capacity of 10 ML - Product water transmission pumping station on the premises of the Perur DSP</td> </tr> </table>	b) Construction of Pumping Stations and Reservoirs	- Perur UGT of Capacity of 9 ML (4 Cells)	c) Construction of product water transmission pumping station on the premises of the Perur DSP	- Perur UGT of Capacity of 10 ML - Product water transmission pumping station on the premises of the Perur DSP
b) Construction of Pumping Stations and Reservoirs	- Perur UGT of Capacity of 9 ML (4 Cells)					
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Chennai-600 002

Please refer Sl.No. 11 of
Addendum

Sl. No.	REFERENCE No.	DESCRIPTION	REQUEST FOR CLARIFICATION/ CONFIRMATION		REPLY BY CMWSSB
			C	Construction of product water transmission system	
59	Section 5-ToR/2- Construction Items in the Project- (d) / Page-71	Replacement of the existing distribution pipes (D100-450 mm, 375 km, DCIP). Reinforcement of the storage capacity of Under Ground Tank (UGT) and Elevated Storage Tanks (ESRs). Setup of district metered areas (DMA)	Kindly confirm whether any condition assessment survey needs to be carried out by the consultant before carrying out this assignment.	Please refer TOR Pg 74 to 82 and/or repaired under this assignment.	Please refer TOR Pg 74 to 82 and refer SI.No.10 of Addendum
60	Section 5-ToR/2- Technical Information / Page-72	The final report on the "Preparatory Survey for Chennai Seawater Desalination Plant Project" is available at CMWSSB. Also, the natural condition survey results implemented by CMWSSB are available as below: - Bathymetric survey of the seabed - Geotechnical survey in the DSP site - Topographical survey in the DSP site - Raw seawater quality of the existing Nemmeli DSP - EIA Report including assessment of the environmental conditions of the Project - Ocean current survey conducted at in front of the DSP site.	It is understood that the CMWSSB has already carried out all necessary survey required for design and execution of contract CMWSSB package CP-1 and no further survey is required to be carried out by the consultant for CP-1. Kindly confirm. It is requested to make these survey reports available for scrutiny by the bidders so that if any need for additional survey could be assessed by the bidders.	Survey conducted by CMWSSB to be reviewed by consultant and Any additions supplementary surveys required are to be conducted by the consultant.	Bid Conditions are Confirmed.
61	Section-5-ToR/ 2/ Page-72	Under funding source, it is mentioned that CP-4 will be funded by the State Government, not CP-4. Please clarify.	We understand that CP-4 will be funded by the State Government.	CP-4 will be funded by the State Government.	Bid Conditions are Confirmed.

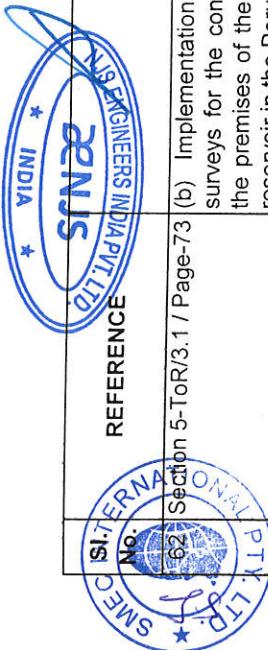


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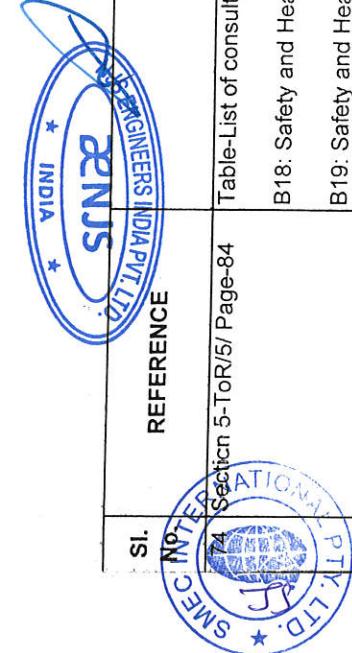
REFERENCE	DESCRIPTION	REQUEST FOR CLARIFICATION/ CONFIRMATION	REPLY BY CMWSSB
62 Section 5-ToR3.1 / Page-73	(b) Implementation of the topographic and geotechnical surveys for the construction area of the pumping stations in the premises of the Perur DSP and the pumping station and reservoir in the Porur WDS.	As understood the consultant will carry out necessary topographic and geotechnical surveys for CP-2. Kindly confirm.	Yes, Bid Conditions are Confirmed.
63 Section 5-ToR3.1 / Page-73	(c) Review of the preliminary design in the DPR;	Please confirm the status of this DPR. The DPR may please be shared.	DPR will be made available to the Successful Bidders
64 Section 5-ToR3.1 / Page-73	(d) Hydraulic analyses of the product water transmission main for final determination of the pump head and counter measure for water hammer.	It is understood that the client will not provide any software for Yes, Bidder's understanding is correct. Hence consultant recommends following software's correct. which may be required for this project: - - WaterGems - Hammer - AutoCAD - Civil 3D - ArcGIS - STAAD Pro - STAAD Foundation	Please refer Form FIN-2 (Summary of cost) Bid Conditions are Confirmed. Apart from the above, the consultant may have to procure some additional software which may be required during this assignment. A detail list will be submitted to the PIU for its approval during the commencement of this assignment. The cost for these software's may be reimbursed by the client from provisional sum. Kindly confirm.
65 Section 5-ToR3.1 / Page-74	(c) Review of the inventory data of the distribution network map to be provided by CMWSSB.	It is understood that the client will provide the inventory data in GIS format. Kindly confirm.	Information available with CMWSSB (not in GIS format) shall be made available to the Successful Bidders.
66 Section 5-ToR3.1 / Page-74	(h) Preparation of the hydraulic modeling for the existing water distribution networks in the core city and calibration.	In order to do hydraulic modelling, the client needs to provide the following data/information/document: - Base maps in GIS - Customer survey data in GIS - Existing pipe network data in GIS - Elevation data in GIS - Leakage point data in GIS	The consultant has to collect/prepare the necessary data required from the field. It is expected that these information are available with the client, otherwise to obtain these, Consultants have to enhance the scope of the assignment and subsequently involvement of concerned experts (especially GIS expert) and including cost of the task in the budgetary provision. Please clarify.

202

Assistant Contracts Engineer
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Chennai-600 002.

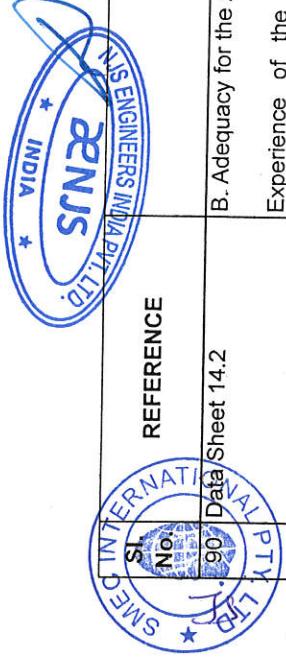


Sl. No.	REFERENCE	DESCRIPTION	REQUEST FOR CLARIFICATION/ CONFIRMATION	REPLY BY CMWSSB
67	Section-5-ToR/3.1/ Page-74	Under CP-4, one of the tasks mentioned as follows: (e) collect and review topographical data for the Chennai Core City	We understand necessary topographical data for designing distribution network is to be collected by the Consultant. We also understand that the area of Chennai Core City is 427 sq.km as mention under para 1.1 of ToR in page 69. CMWSSB is requested to clarify.	Yes, Bidder's understanding is correct.
68	Section-5-ToR/ 3.1/ Page-74	Under CP-4, one of the tasks mentioned as follows: (e) procurement of the desktop personal computers and software	We understand desktop personal computers are for consultant's staff. CMWSSB is requested to clarify.	Yes, Bidder's understanding is correct.
69	Section 5-ToR/3.2 / Page-76	For procurement of services and goods for CP2, the bidding documents will include the maintenance of the facilities	As per Table- Procurement Packages and Procedure of the Facilities created under CP2 Project, the CP2 contract package will be a Design Bid Build contract. Kindly clarify who will be the operator for the maintenance of the facilities created under this package.	
70	Section 5-ToR/3.4 / Page-80	(s) Modify the designs, technical specifications and drawings, relevant calculations and cost estimates as may be necessary in accordance with the actual site conditions, and issue variation orders (including necessary actions in relation to the works performed by other contractors working on other projects, if any).	Kindly confirm whether the consultant needs to review the CP3 design. If not, all design documents may please be shared with the consultant, as the design of other contract packages are linked with CP-3.	Yes, Bid Conditions are Confirmed.
71	Section 5-ToR/3.5 / Page-82	(a) Assistance in development of digital pipe inventory data base using geotechnical information system (GIS) through OJT to CMWSSB staff during detailed design of CP 4	The consultant feels that the same may be done for contract package CP-3. In this connection it is proposed to provide a GIS expert under this assignment.	Bid Conditions are Confirmed.
72	Section 5-ToR/5/ Page-84	Table-List of consulting Experts	A12. Specification Specialist (Desal)- CP1-D A13. Specification Specialist (Distribution)- CP2-D, CP4-D B15: Specification Specialist- CP2-D, CP4-D	Experts A12, A13, B15 should (Desal)and Specification Specialist (Distribution) will be involved in only Design work but as per the assigned tasks for both Design and Preparation of A12: Specification Specialist (Desal), A13: Specification Specialist (Distribution) and B15: Specification Specialist, it is mentioned that they will be involved in preparing technical specification only. Kindly clarify
73	Section 5-ToR/5/ Page-84	Table-List of consulting Experts	B2: Civil Engineer- CP3-SV, CP4-D & SV B5: Structural Engineer-CP1-SV, CP2- D & SV, CP4-D & SV.	It is felt that a civil engineer may be required for supervision of CP1 contract package for which a structural expert has been assigned. The Structural expert may be utilized for Design work of CP-1 instead of Construction supervision. Kindly suggest.



Sl. No.	REFERENCE	DESCRIPTION	REQUEST FOR CLARIFICATION/ CONFIRMATION	REPLY BY CMWSSB
74	Section 5-ToR/5/ Page-84	Table-List of consulting Experts B18: Safety and Health Expert-1- CP1-SV, CP2-SV, CP4-SV B19: Safety and Health Expert—CP3-SV, CP4-SV	No safety and Health Expert have been considered for CP5. The consultants feel the requirement of those experts in CP5.	Bid Conditions are Confirmed.
75	Section 5-ToR/1/ Page-85	Table: Qualification of Key Experts PM's qualification: Have experience of working in developed as well as developing countries on projects assisted by bilateral and multilateral agencies	Bilateral and Multilateral Agencies work mostly in developing countries only and not in developed countries. So, this criterion mayn't be practical and fruitful for developed countries. Therefore, as regard to developed countries, we think the intention of RFP must be to have the experience of work over there only irrespective of the source of funding. Please clarify or confirm in this regard.	Bid Conditions are Confirmed.
76	Section 5-ToR/7/ Page-94	Table- Reports and Documents to be submitted by the Consultant SI.2 Monthly Progress Report SI .11.1 Progress Report-	In SI 2, it's mentioned that the consultant will submit 10 copies of Monthly Progress Report to the client again in SI. 11.1. it is mentioned Consultant will submit progress report every month. Are they different? Kindly clarify	Both are same.
77	Data sheet/11.2/Page 26	As per Entry No. 3 of Exemption Notification No.9/2017 - Integrated Tax (Rate) dated 28.06.2017 issued by the Central Government of India, Consultancy Services being a Pure Service (without involving any Supply of Goods) provided by Indian Consultants/Foreign Consultants to the CMWSS Board (Being a Governmental Authority) is exempted from Goods and Service Tax	It is requested to mention that if any indirect taxes are imposed by the Government during the tenure of the assignment, those taxes will be paid/reimbursed by the client. We would also request to clarify whether the income tax for change/introduction of international experts will be reimbursed by the client. Please clarify.	CMWSSB will bear any other Indirect Taxes prospectively from the effective date of change/introduction. Income Tax for International/ Local Experts will not be reimbursed.
78	Section 8-SCC/2.1/ 134	The point asks for an irrevocable contract performance bank guarantee of 1% of consultancy fee valid upto one year beyond the date of completion of consultancy period	Our request is to remove this clause as we are already submitting Advance Bank Guarantee	Bid Conditions are Confirmed.
79	General		Please share the list of other shortlisted consultants.	All the shortlisted consultants attended the Pre-Bid Meeting.
80	Data Sheet 11.1 (ii) c	Amount of Provisional Sums	How much is provisional sums? As this will be a part of the Consulting fee as a non-competitive portion.	Please refer Addendum Sl.No.8 of
81	Data Sheet 11.1 (ii) c	Contingency Amount (5% of the Contract Amount)	We understand these will a part of the Consulting fee as a non-competitive portion. Kindly confirm.	Yes, Bidders Understanding is Correct. Also Please refer Sl.No.6 of Addendum

Sl. No.	REFERENCE	DESCRIPTION	REQUEST FOR CLARIFICATION/ CONFIRMATION	REPLY BY CMWSSB
82	Data Sheet 14.2	Qualification criteria- Project Manager (International Expert) At least two experiences of water supply projects of ICB with private fund. contract financed by bilateral or multilateral funding agency, of which each contract amount is more than USD 50 million	Kindly consider private fund projects beside bilateral and multilateral agencies as many of plant projects are implemented.	Bid Conditions are Confirmed.
83	TOR	I. Specific Experience of the Consultancy firm related to the assignment	We understand the bidders have either Design or TA or SV in the project to be shown. For most desalination projects, the Preparation of Design, Bid Documents and Evaluation of Bids are a separate contract to the PMC and supervision. Also, in many of the contract in Water Supply Sector, design and supervision is to be done by different consultant. Please confirm.	Consultant executed either Design, TA, SV will be considered and evaluation will be carried out according to their involvement in each process.
84	Data Sheet 14.2	I. Specific Experience of the Consultancy firm related to the assignment (iii)	We understand "International Project" means, projects outside of India. Kindly confirm.	'International Project' means Projects carried out in Developed Countries
85	Data Sheet 14.2	I. Specific Experience of the Consultancy firm related to the assignment (iii)	Kindly consider the on-going plant experience since the desalination technology is new especially for developing countries.	Bid Conditions are Confirmed.
86	Data Sheet 14.2	Experience in Japanese ODA Funded Water Supply Projects	Please give us the breakdown - how many projects are required One Project is enough.	
87	Data Sheet 14.2	B. Adequacy for the Assignment	We understand each expert has to have more than 3 projects of either Design, TA or SV experience in each category.	No, Bid Conditions are Confirmed.
88	Data Sheet 14.2	B. Adequacy for the Assignment "Plant experience"	This is because: We request CMWSSB to remove the table of "i. Experience of the Key Experts in Desalination Plant of minimum capacity 40 MLD & Reservoirs" from the position of No.4 Water Supply Engineer -International Expert as this position is related to water supply distribution system.	Please refer St.No.5 of Addendum.
89	Data Sheet 14.2	B. Adequacy for the Assignment	Experience of the Key Experts in Desalination Plant of minimum capacity 40 MLD & Reservoirs	For positions of No.1 Project Manager - International Expert and Yes, Bidder's understanding is and No.2 Senior Civil Engineer - Local Expert, the meaning of "Reservoir" is clear water sump in the plant Kindly confirm.



REFERENCE	DESCRIPTION	REQUEST FOR CLARIFICATION/ CONFIRMATION	REPLY BY CMWSSB
90 Data Sheet 14.2	B. Adequacy for the Assignment Experience of the Key Experts in Desalination Plant of minimum capacity 40 MLD & Reservoirs	For positions of No.4 Water Supply Engineer -International Expert and No10. Contract Specialist (Distribution) Reservoir in the distribution system. Kindly confirm.	Yes, Bidder's understanding is correct.
91 TOR 5. STAFFING	In addition to the consultants, supporting staff such as secretaries, CAD operators, GIS operators, office keepers, and inspectors will be necessary, and the total input is estimated to 654 MM.	We understand 654 MM is minimum MM for support staff. Kindly confirm.	Yes, Bidder's understanding is correct.
92	Office Space	Kindly confirm if the office space will be provided by CMWSSB or the bidder has to quote the same in the financial proposal.	To be rented by the consultant Please refer FIN 5
93 Clause no.2, Page Objective of the project	CP5: Installation of external power transmission main	Please provide the details of transmission line like origin of substation, alignment, Kv and length. Also, we would like to confirm if the expected work for the installation of external power transmission line is only the environmental management and monitoring excluding Design construction management. Please confirm.	The work of Installation of External power Transmission Line is to be implemented by the State Electricity Board. Yes, Bidder's understanding is correct. Design is not a part of the Consultancy Services. Also refer Scope of CP5 as in TOR (Pg No.81)
94 Clause no.3.1, Page 74 Design works (CP1, CP2 and CP4)	b) collect and review topographic data for Chennai core city	CMWSSB having topographical data of project area in AutoCAD format, please confirm. Also, please confirm the quantity of topographical survey to be carried out.	Please refer reply to Query No.66
95 Clause no. 3.1, Page 74 Design works (CP1, CP2 and CP4)	Availability of existing distribution system maps	Please confirm that CMWSSB have the entire as built and validated distribution system maps in AutoCAD format and the same will be made available.	Please refer reply to Query No.66



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Sl. No.	REFERENCE	DESCRIPTION	REQUEST FOR CLARIFICATION/ CONFIRMATION	REPLY BY CMWSSB
96	Clause no. 3.5, page 81 Scope of the consulting services for CP5	The Consultant shall perform the following tasks throughout the execution of CP5;	The scope of work given in TOR is not clear and hence requesting you to provide detailed scope of work for CP5.	The work of installation of external power transmission line is to be implemented by the state electricity board and this consultancy service is to monitor the progress of consultancy service is to construction and interface the co-ordination between CP1 and monitor the progress of construction and interface the co-ordination between CP1 and CP5?
97	Clause no. 14.2 Page 29	a) Prepare the technical requirement to CP 5 b) Monitor the progress of construction of CP5 c) Interface coordination between CP 1 and CP 5	Will the work of installation of external power transmission line the state electricity board and the scope under this consultancy service is to monitor the progress of consultancy service is to construction and interface the co-ordination between CP1 and CP5? OR The detailed engineering of external power transmission line its and CP5. bid process management, project management and co ordination between CP1 and CP5 is to be considered as scope for this consultancy? Kindly confirm.	The work of installation of external power transmission line the state electricity board and the scope under this consultancy service is to monitor the progress of consultancy service is to construction and interface the co-ordination between CP1 and CP5?
98	Experience of Developing Countries in Preparation of Design, Bid Documents, Evaluation of Bid Documents and PMC of 700 mm and above and kindly revise the criteria as: Construction Management and Supervision of MS Pipeline of Experience of Developing Countries in Preparation of Design, minimum size of 1000 mm and above for a minimum length of 6.5 KM in one Project and a minimum length of 5 KM and above in the subsequent Projects (completed pipeline projects during last 10 years only will be taken into account for evaluation)	We request you to please consider MS/ DI pipeline of minimum Bid Conditions are Confirmed.	We request you to please consider MS/ DI pipeline of minimum Bid Conditions are Confirmed.	We request you to please consider MS/ DI pipeline of minimum Bid Conditions are Confirmed.
99	General	Experience of consultancy work under PPP project	Please confirm that the work experience of the consultant for providing design engineering and project management consultancy for operator of PPP project in India will be considered and given additional weightage than EPC.	Please confirm that the work experience of the consultant for providing design engineering and project management consultancy for operator of PPP project in India will be considered and given additional weightage than EPC.
100	General	Payment terms	With reference to the RFP document stage wise payment terms are not clear. Hence requesting you to please share the stage wise payment details as per the scope of work given in the RFP document.	Payment will be made Bi-monthly as per Clause 6.5(e) of SCC in Page No.139.
			Also, Please Refer Sl.No.6 of Addendum.	Yes, Bidders understanding is correct.
				However, the consultant has to review the reports and suggest modifications if any.
				Kindly Confirm.



REFERENCE NO	DESCRIPTION	REQUEST FOR CLARIFICATION/ CONFIRMATION	REPLY BY CMWSSB
101	Clause no. 3.1. Page 74 Design works (CP1, CP2 and CP4) h) Preparation of the hydraulic modelling for the existing water distribution networks in the core city and calibration	<p>The detailed design for CP 4 will include the following works:</p> <p>h) Preparation of the hydraulic modelling for the existing water distribution networks in the core city and calibration</p>	<p>It is requested to provide the boundary of area of interest (core city) for the distribution network to be hydraulically model and Addendum for Item 1 to 7 of the model calibration. The competitive quote can only be given if we know:</p> <ol style="list-style-type: none"> 1. The area in sq. Km. of interest 2. Number of supply zones i.e. Number of ESRs and command area under each of it. 3. Population of the area of interest. 4. Length of existing distribution system in the area of interest. 5. The length of uncovered roads in the distribution in area of interest. 6. Number of connections under each supply zone. 7. Whether all the consumer connections are metered or otherwise. 8. Are there working bulk flowmeter in each of the supply zones. 9. Are there pressure sensors are already installed in the supply zones.
102			<p>The work under CP3 i.e. permeate water transmission main we request you to provide us the detailed map of the project showing the DSP the transmission main and the distribution network area of interest. This will help us in properly assessing the human resource requirements.</p> <p>In this regard kindly confirm the following:</p> <ol style="list-style-type: none"> 1. The present database that you have and the software to which it is compatible may please be given. 2. Kindly confirm if you intend to have the consumer survey to be carried out by the consultant and if as, extent of the same. 3. The software for hydraulic modelling, asset mapping and consumer database that you are presently using may please be stated. This will help us in assessing your requirement and considering the cost of most optimal software. This will help in giving competitive quote.
103	3.1 Design works (CP1, CP2 and CP4) Page no 74	<p>The detailed design for CP 4 will include the following works:</p> <p>Preparation of the database by the software procured for the Chennai Core City</p>	<p>Consultant has to collect data from field and adopt suitable software for Design.</p>
104	Section - 2 Instructions to Consultants, 9. Preparation of Proposals -Specific Considerations, Page no. 12	<p>9.2 In the event that the Consultant constitutes a Joint Venture, the Consultant shall submit (i) a copy of the Joint Venture Agreement with its Technical Proposal, and (ii) a power of attorney (executed by all members), that authorizes the designated lead or managing member of the Joint Venture to act for and on behalf of the Joint Venture and to legally bind such Joint Venture in any contractual or similar documentation.</p>	<p>No Draft of Joint Venture/Consortium Agreement to be submitted with the response to pre-proposal queries.</p> <p>The Bidders shall submit the Copy of the JV executed between members. Please refer Form Tech - 1 of Page 38 in RfP.</p>



208



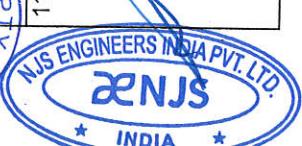
Assistant Contracts Engineer
C.M.W.S.S. Board

208 208 208

Sl. No.	REFERENCE No.	DESCRIPTION	REQUEST FOR CLARIFICATION/ CONFIRMATION	REPLY BY CMWSSB
105	Clause no 3.1, Page 73 Design works (CP1, CP2 and CP4)	The detailed design for CP 2 will include the following works: a) Review of the technical information on the Project; b) Implementation of the topographic and geotechnical surveys area have to be considered within the scope of the Consultant.	Please, confirm that the contract of the geotechnical surveys and report to be done at the DSP, pumping station and reservoir correct.	Yes, Bidders understanding is correct.
106	Clause no. 3.1, Page 74 Design works (CP1, CP2 and CP4)	The detailed design for CP 2 will include the following works: e) Detailed design of the pumping stations and reservoir including architectural, civil, mechanical and electrical works;	Please clarify the scope of "detailed design" in this clause. As per our understanding this design will be a part of the bidding document to be prepared for the EPC contractors that, after the award, should develop their own detailed, for construction engineering. In this sense we consider that the level of detail should be such to allow the EPC contractors to find their own optimized solution for the design of the pumping station and reservoir. Please, confirm if our understanding is correct.	The Detailed design of CP 2 has to be carried out by the consultant as per TOR. Bid Conditions are confirmed.
107	Clause no. 3.1, Page 74 Design works (CP1, CP2 and CP4)	The detailed design for CP 4 will include the following works: h) Preparation of the hydraulic modeling for the existing water distribution networks in the core city and calibration	Is it possible to know in advance, so to understand the volume of the job, the size of the existing water distribution network in the Chennai core city? What would be the input data to evaluate the extension and problematic of the existing network?	Please refer reply to Query No.57 & 101
108	Form of Contract CONSULTANT SERVICES, Page 101	1. The following documents attached hereto shall be deemed to form an integral part of this Contract: (a) Minutes of Contract Negotiations (b) The Special Conditions of Contract (SCC); (c) The General Conditions of Contract (GCC); (d) The following Appendices:	We request the possibility of including the proposal of the Consultant as part of the Contract.	Bid Conditions are confirmed.
		Appendix A: Description of Services Appendix B: Reporting Requirements Appendix C: Expert Schedule Appendix D: Remuneration Cost Estimates Appendix E: Reimbursable Cost Estimates Appendix F: Summary of Cost Estimates Appendix G: Services, Facilities and Equipment to be provided by the Client Appendix H: Form of Advance Payments Security Appendix I: Acknowledgment of Compliance with Guidelines for the Employment of Consultants under Japanese ODA Loans		

Sl. No.	REFERENCE	DESCRIPTION	REQUEST FOR CLARIFICATION/ CONFIRMATION	REPLY BY CMWSSB
1105	I. Form of Contract CONTRACT FOR CONSULTANT SERVICES, 2. COMMENCEMENT, COMPLETION, MODIFICATION AND TERMINATION OF CONTRACT Page 108	1.1 Definitions. (v) "Third Party" means any person or entity other than the Government, the Client, the Consultant or a Subconsultant	We request explanation about why the Indian Government is excluded as Third Party.	Please Refer Sl.No.13 of Addendum.
110	I. Form of Contract CONTRACT FOR CONSULTANT SERVICES, General Conditions of Contract Page 112	2.6 Modifications. 2.6.1 Modifications or variations. b) In case of substantial modifications or variations, the prior written concurrence of JICA is required.	What is considered a "substantial" modification or variation?	The identification of the substantial modifications will be decided on mutual consent by the Client and the Consultant for getting prior concurrence from JICA.
1111	I. Form of Contract CONTRACT FOR CONSULTANT SERVICES, General Conditions of Contract Page 112	2.6 Modifications. 2.6.2 Extensions y) Any act or omission of or any default or breach of this Contract by the Client or any act or omission of any other Consultants and/or contractors employed by the Client.	We request to include "and/or any act or omission of any Third Party". The activity of any other Third Party could affect our job in such a way that an extension or change in the scope is produced.	Bid Conditions are confirmed.
1112	I. Form of Contract CONTRACT FOR CONSULTANT SERVICES, General Conditions of Contract Page 113	2.8.3 Cessation of Rights and Obligations (ii) the obligation of confidentiality set forth in Clause GCC 3.3	We request to include a milestone to delimit the confidentiality (ie. 5 years after the termination of the contract.)	Bid Conditions are confirmed.
1113	I. Form of Contract CONTRACT FOR CONSULTANT SERVICES, General Conditions of Contract Page 122	3.4 Liability of the Consultant. (e) The Consultant shall indemnify, ... (ii) that the ceiling on Consultant's liability shall be limited to the amount indicated in the SCC, except that such ceiling shall not apply to actions, claims, losses or damages caused by Consultant's gross negligence or reckless conduct;	We request to modify paragraph (ii) as follows:	Bid Conditions are confirmed.
114	I. Form of Contract CONTRACT FOR CONSULTANT SERVICES, General Conditions of Contract Page 123	3.4 Liability of the Consultant. (e) The Consultant shall indemnify, ... (iii) that: Consultant's liability under Clause GCC 3.1.1 shall be limited to actions, claims, losses or damages directly caused by such failure to exercise the said skill and care, and shall not include liability for any actions, claims, losses or damages whether arising in contract, tort (including negligence) or other arising out of occurrences incidental or indirectly consequential to such failure.	We request to include, in this clause, the following paragraph: "For the avoidance of doubt, in no event shall either Party be liable to the other party for indirect, incidental, special, punitive or consequential damages of any nature, including, but not limited to, loss of use, loss of revenue, or loss of income,	Bid Conditions are confirmed.

Sl. No.	REFERENCE	DESCRIPTION	REQUEST FOR CLARIFICATION/ CONFIRMATION	REPLY BY CMWSSB
115	Clause 14.2, Category Project Manager (International Expert). Pages 26 and 27	At least two experiences of water supply projects of ICB contract financed by bilateral or multilateral funding agency, of which each contract amount is more than USD 50 million.	Please confirm that the USD 50 million makes reference to the complete construction contract amount, not only the consultancy services.	Yes, Bidders understanding is correct.
116	Scope of the consulting services. Paragraph 3.5. Page 81	The Consultant shall perform the following tasks throughout the execution of CP5; <ul style="list-style-type: none"> a) Prepare the technical requirement to CP 5 b) Monitor the progress of construction of CP5 c) Interface coordination between CP 1 and CP 5 	We would appreciate receiving additional information about the length and tentative routing of the external power transmission line involved in CP5 package in order to correctly size the scope involved in this part of the proposal.	The work of Installation of External power Transmission Line is to be implemented by the State Electricity Board. The length and tentative route will be finalised on the course of duration of the contract work.



211

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Name of Work : Consultancy for Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works



ADDENDUM

Contract No: CNT/CON/DESAL/ICB/GOI/016/2018-19.

Original Clause as Existing in Bid Document		Page No as per tender and associated volume	Addendum																								
1	Data Sheet Clause 12.5 Time and date of the Proposal submission deadline: - Time: 3.00 PM - Date: 21.01.2019	Data Sheet Clause 12.5 Time and date of the Proposal submission deadline: - Time: 3.00 PM - Date: 21.02.2019	Data Sheet Clause 12.5 Time and date of the Proposal submission deadline: - Time: 3.00 PM - Date: 21.02.2019																								
2	Data Sheet 14. C. Evaluation of Financial Proposal 14.6 (i) Date of Exchange Rates is: Date of opening of Technical Proposal (Proposal Submission Date)	Data Sheet Clause 14.6 (i) Data Sheet: Clause 12.3 Number of copies of the Proposal, Technical and Financial proposals are to be furnished in two copies each (one original and one copy) with Forms FIN-1 to FIN-5 in soft copy.	Data Sheet 14. C. Evaluation of Financial Proposal 14.6 (i) Date of Exchange Rates is: 14 Days before the Due Date of Submission.																								
3	Data Sheet 12. Submission, Receipt, and Opening of Proposals Data Sheet: Clause 12.3 Number of copies of the Technical Proposal: Technical and Financial proposals are to be furnished in two copies each (one, original and one copy)	Data Sheet Clause 12.3 Data Sheet: Clause 12.3 Number of copies of the Proposal, Technical and Financial proposals are to be furnished in two copies each (one original and one copy) with Forms FIN-1 to FIN-5 in soft copy.	Data Sheet 12. Submission, Receipt, and Opening of Proposals Data Sheet: Clause 12.3 Number of copies of the Proposal, Technical and Financial proposals are to be furnished in two copies each (one original and one copy) with Forms FIN-1 to FIN-5 in soft copy.																								
			Data Sheet Clause 14.2. Qualification Criteria																								
			<table border="1"> <thead> <tr> <th>Sl. No</th> <th>Category Name</th> <th>Minimum educational qualification and Discipline</th> <th>Overall Years of Experience (min)</th> <th>Qualification and expertise required</th> <th>No required</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Project Manager (International Expert)</td> <td>Post Graduate in Civil Engineering</td> <td>20</td> <td>Project Manager (International Expert)</td> <td><input type="checkbox"/> At least 20 years' experience in water supply projects</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td><input type="checkbox"/> At least two experiences of water supply projects of ICB contract financed by bilateral or multilateral funding agency, of which each contract amount is more than USD 50 million</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td><input type="checkbox"/> Have experience of working in developed as well as developing countries on projects assisted by bilateral and multilateral agencies</td> </tr> </tbody> </table>	Sl. No	Category Name	Minimum educational qualification and Discipline	Overall Years of Experience (min)	Qualification and expertise required	No required	1	Project Manager (International Expert)	Post Graduate in Civil Engineering	20	Project Manager (International Expert)	<input type="checkbox"/> At least 20 years' experience in water supply projects						<input type="checkbox"/> At least two experiences of water supply projects of ICB contract financed by bilateral or multilateral funding agency, of which each contract amount is more than USD 50 million						<input type="checkbox"/> Have experience of working in developed as well as developing countries on projects assisted by bilateral and multilateral agencies
Sl. No	Category Name	Minimum educational qualification and Discipline	Overall Years of Experience (min)	Qualification and expertise required	No required																						
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			<table border="1"> <thead> <tr> <th>Sl. No</th> <th>Category Name</th> <th>Minimum educational qualification and Discipline</th> <th>Overall Years of Experience (min)</th> <th>Qualification and expertise required</th> <th>No required</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Project Manager (International Expert)</td> <td>Post Graduate in Civil Engineering</td> <td>20</td> <td>Project Manager (International Expert)</td> <td><input type="checkbox"/> At least 20 years' experience in water supply projects</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td><input type="checkbox"/> At least two experiences of water supply projects of ICB contract financed by bilateral or multilateral funding agency, of which each contract amount is more than USD 50 million</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td><input type="checkbox"/> Have experience of working in developed as well as developing countries on projects assisted by bilateral and multilateral agencies</td> </tr> </tbody> </table>	Sl. No	Category Name	Minimum educational qualification and Discipline	Overall Years of Experience (min)	Qualification and expertise required	No required	1	Project Manager (International Expert)	Post Graduate in Civil Engineering	20	Project Manager (International Expert)	<input type="checkbox"/> At least 20 years' experience in water supply projects						<input type="checkbox"/> At least two experiences of water supply projects of ICB contract financed by bilateral or multilateral funding agency, of which each contract amount is more than USD 50 million						<input type="checkbox"/> Have experience of working in developed as well as developing countries on projects assisted by bilateral and multilateral agencies
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212



Original Clause as Existing in Bid Document

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				Page No as per tender and associated volume																																																																																									
Desalination Expert (International Expert)	2	Graduate in Civil, Mechanical or Electrical Engineering	15	At least 15 years' experience in Seawater desalination projects <input type="checkbox"/> Experience of at least three projects of seawater desalination plant construction projects by RO involving design and tender assistance, of which each plant capacity is 50 MLD or more, as desalination process expert		Desalination Expert (International Expert)	2	Graduate in Civil, Mechanical or Electrical/ Chemical Engineering	15	At least 15 years' experience in seawater desalination projects <input type="checkbox"/> Experience of at least three projects of seawater desalination plant construction projects by RO involving design and tender assistance, of which each plant capacity is 50 MLD or more, as desalination process expert																																																																																			
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ADDENDUM

Contract No: CNT/CON/DESAJ/CB/Gol/016/2018-19.

Original Clause as Existing in Bid Document



6 FIN 1 Financial Proposal Submission Form

Amounts must coincide with the ones indicated under Total in Form FIN-2. This amount is inclusive of the local indirect taxes, which shall be confirmed during negotiations, and included in the Contract price.

FORM FIN 2 : SUMMARY OF COSTS (A to D)

- A. Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant including Commissioning Period
- B. Construction of Pumping Station and Reservoirs including Defect Liability Period
- C. Installation of Product Water Transmission Mains including Defect Liability Period
- D. Improvement of the Existing Water Distribution Networks including Defect Liability Period

Page No as per tender and associated volume

Addendum

The Grand Summary of Costs FIN 2 in Pg. No. 54 is deleted and Summary of Cost FIN 2 Pg No.56 to 59 is replaced by a single combined format as below.

FORM FIN 2 : SUMMARY OF COSTS

Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids & Construction Supervision for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur, Construction of Pumping Stations and Reservoirs including Defect Liability Period and Construction Management, Improvement of the Existing Water Distribution Networks Defect Liability Period & Construction Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works.

S. No	Description	Amount (Indian Rupees)	Amount (Foreign Currency)
A	Remuneration		
1	Remuneration for Professional (International Experts)		
2	Remuneration for Professional (Local Experts)		
3	Supporting Staffs		
	Subtotal of A		
B	Direct Cost (Reimbursable Expenses)		
1	Transportation		
2	Duty Travel		
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	Local Air Travel		
3	Office Rent		
4	Office Supplies, Utilities and Communication		
5	Office Furniture and Equipment		
6	Reports and Document Printing		

Section-2/ 11-
a: Taxes/
Page-16,
&
Page-56-59

Form -Fin 2
A, B, C & D/
Page-56-59

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ADDENDUM

Contract No: CNT/CON/DESAL/ICB/GOI/016/2018-19.

Original Clause as Existing in Bid Document

		Page No as per tender and associated volume	Addendum		
Survey			7	Survey	
Software			8	Software	
Subtotal of B			9	Per Diem (Per Day) Allowance	
Local Taxes				Subtotal of B	
Total of (A & B)				Total of (A & B)	
Local Indirect Tax				Local//Indirect Taxes*	
Total				Contingencies @ 5%*	
Contingencies @ 5%				Provisional Sums*	
Provisional Sums				Total	
Net Total				* Non Competitive Items	
7 Data Sheet Clause 11.1 (i)		Form FIN-5 : Breakdown of Reimbursable Expenses 6. Per Diem (Per Day) Allowance			
11.1 a per diem (per day) allowance in respect of Experts of the Consultant for every day in which the Experts shall be absent from their home office;		Data Sheet Clause 11.1(i), Page- 25 & 63	Sl. No	Description	Quantity
Form FIN-5 : Breakdown of Reimbursable Expenses			Foreign	Currency	Rate
			1	Per Diem (Per Day) Allowance	Amount
					Total
8 Data Sheet of Instructions to Consultants : Clause 11.1 (ii) c		Data Sheet of Instructions to Consultants : Clause 11.1 (ii) c			
Amount for provisional sums:		Amount for provisional sums: - For Foreign Currency: - For Local Currency:			
Contingency amount: (5 % of the Contract Amount)		Contingency amount: (5 % of the Contract Amount) - For Foreign Currency: - For Local Currency:			
9 Data Sheet 14.2. Criteria, sub-criteria, and point system for the evaluation are:		Data Sheet 14.2. Criteria, sub-criteria, and point system for the evaluation are:			
I. For Key Expert Sl. No. 3,5,6 & 9		I. For Key Expert Sl. No. 3,5,6 & 9			
B. Adequacy for the Assignment		B. Adequacy for the Assignment Points 60 (Max)			
Experience of the Key Experts in Desalination Plant as per the requirement in TOR for the respective Expert		Experience of the Key Experts in Desalination Plant as per the requirement in TOR for the respective Expert			



215

Assistant Contracts Engineer



ADDENDUM

Contract No: CNT/CON/DESAL/ICB/Gol/016/2018-19.

Original Clause as Existing in Bid Document	Page No as per tender and associated volume	Addendum
10 TOR 2. OBJECTIVES OF THE PROJECT Improvement of the existing water distribution networks in the Chennai City.	Section 5- ToR/2 (d), Page 70	Refer Annexure - I to III for the technical details of the existing water supply system The details provided are indicative only. Consultant has to collect data from the field.
11 TOR 2. OBJECTIVES OF THE PROJECT Table - Construction Items in the Project	Section 5- ToR/2/ Page 70	TOR 2. OBJECTIVES OF THE PROJECT Table - Construction Items in the Project
b) Construction of Pumping Stations and Reservoirs	b) Construction of Pumping Stations and Reservoirs	Product water transmission pumping station on the premises of the Perur DSP with Perur UGT of Capacity of 9 ML (4 Cells) Water Transmission Pumping Station and reservoir in the Porur Water Distribution Station (WDS) with Porur UGT of Capacity of 10 ML
c) Construction of product water transmission system	c) Construction of product water transmission system	Product water transmission pumping station on the premises of the Perur km, MS or DCIP) Product Water Transmission Main (D 1000, 1600, 1800 and 2000mm, 65 km, MS or DCIP) Water Transmission Pumping Station and reservoir in the Porur Water Distribution Station (WDS)
12 CP3 - Product Water Transmission Main		Please refer Annexure IV for CP3 - Alignment Drawing of Product Water Transmission Main
13 General Conditions of Contract	GCC Clause 1.1. Definitions : (v), Pg No. 108	Special Conditions of Contract Clause 1.1. Definitions : (v) "Third Party" means any person or entity other than the Client, the Consultant or a Sub-consultant.

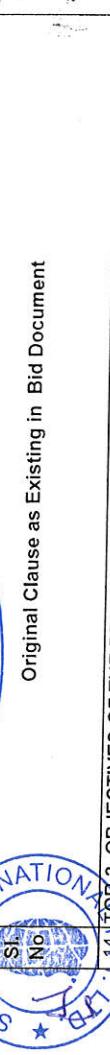


Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.





* VIGANI *
SNC
INTERNATIONAL PRIVATE LTD



ADDENDUM

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Original Clause as Existing in Bid Document	Page No as per tender and associated volume	Addendum
TOR 2. OBJECTIVES OF THE PROJECT		
Table - Construction Items in the Project		
b) Improvement of the existing distribution system Chennai City	TOR 2., Page No.71	Table - Construction Items in the Project
Core the existing distribution pipes to strengthen the capacity of Installation of supplementary distribution networks (D150-700 mm, 101km, DCIP)		TOR 2. OBJECTIVES OF THE PROJECT
Installation of new water distribution pipes in un-covered streets in Core city.(D100-150 mm, 258km, DCIP)		
Reinforcement of the storage capacity of Under Ground Tank (UGT) and Elevated Storage Tanks (ESRs)		
Installation of service connections and water meters		
Setup of district metered areas (DMA)		
Data Sheet Clause 14.2 & TOR. 5. STAFFING		
Note : The International Experts (IE) is the person who has relevant experience in works of similar nature and has experience of working in Developed and Developing Countries. (with atleast 5 years of experience in Developed Countries).		
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15 Data Sheet Clause 14.2 & TOR. 5. STAFFING	Data Sheet Clause 14.2, Pg No. 28 & TOR. 5. STAFFING, Pg No. 84	18.01.2019
14 TOR 2. OBJECTIVES OF THE PROJECT		Engineering Director.i/c



15 Data Sheet Clause 14.2 & TOR. 5. STAFFING

b)	Improvement of the existing distribution system Chennai City	Core the existing distribution pipes to strengthen the capacity of Installation of supplementary distribution networks (D150-700 mm, 101km, DCIP)
		Installation of new water distribution pipes in un-covered streets in Core city.(D100-150 mm, 258km, DCIP)
		Reinforcement of the storage capacity of Under Ground Tank (UGT) and Elevated Storage Tanks (ESRs)
		Installation of service connections and water meters
		Setup of district metered areas (DMA)

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Data Sheet Clause 14.2 & TOR. 5. STAFFING

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Data Sheet Clause 14.2 & TOR. 5. STAFFING

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217

Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.



Annexure A
ToR. 5 Staffing , Table - List of Consulting Experts (Pg.No.84)

Pro. Type	No.	Position	Contract Package (CP)												CD		
			1			2			3		4			5			
			D	TA	SV	D	TA	SV	SV	D	TA	SV	TA	SV			
IE	1	Project Manager	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
IE	2	Desalination Expert	✓	✓	✓												
IE	3	Water Supply Engineer	✓	✓		✓	✓			✓	✓				✓		
IE	4	Civil and Structure Engineer (Desal)	✓	✓	✓												
IE	5	Mechanical Engineer (Desal)	✓	✓	✓												
IE	6	Mechanical Engineer (Distribution)					✓	✓									
IE	7	Electric Engineer (Desal)	✓	✓	✓										✓		
IE	8	Electric Engineer (Distribution)					✓	✓									
IE	9	Monitoring and control expert (Desal)	✓	✓	✓												
IE	10	Monitoring and control expert (Distribution)					✓	✓	✓		✓	✓	✓				
IE	11	Pipeline Engineer								✓	✓	✓	✓	✓			
IE	12	Specification Specialist (Desal)	✓														
IE	13	Specification Specialist (Distribution)					✓				✓						
IE	14	Financial Expert	✓	✓											✓		
IE	15	Contract Specialist (Desal)	✓	✓													
IE	16	Contract Specialist (Distribution)					✓	✓			✓	✓					
IE	17	Environmental Specialist	✓		✓	✓		✓	✓	✓		✓	✓	✓			
IE	18	Commissioning Engineer			✓												
IE	19	Social Communication Specialist	✓		✓	✓		✓	✓	✓		✓	✓	✓	✓		
IE	20	Organizational Expert													✓		
LE	1	Senior Civil Engineer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
LE	2	Civil Engineer								✓	✓		✓				
LE	3	Mechanical Engineer				✓	✓	✓	✓		✓	✓	✓				
LE	4	Electrical Engineer				✓	✓	✓	✓	✓		✓	✓	✓	✓		
LE	5	Structural Engineer				✓	✓		✓		✓		✓				
LE	6	Architect	✓		✓	✓	✓		✓								
LE	7	Building Mechanical and Electrical Engineer	✓		✓	✓		✓									
LE	8	Senior Pipeline Engineer									✓	✓			✓		
LE	9	Pipeline Engineer 1									✓		✓				
LE	10	Pipeline Engineer 2									✓		✓				
LE	11	Pipeline Engineer 3									✓						
LE	12	Hydraulic Modeler 1										✓					
LE	13	Hydraulic Modeler 2										✓					
LE	14	Construction Planner/Cost Estimator						✓				✓					
LE	15	Specification Specialist					✓					✓					
LE	16	Environmental Specialist	✓		✓	✓		✓	✓	✓		✓	✓	✓	✓		
LE	17	Social Communication Specialist	✓		✓	✓		✓	✓	✓		✓	✓	✓	✓		
LE	18	Safety and Health Expert 1			✓			✓				✓					
LE	19	Safety and Health Expert 2								✓		✓					
LE	20	Quantity Surveyor 1					✓		✓						✓		
LE	21	Quantity Surveyor 2								✓		✓					

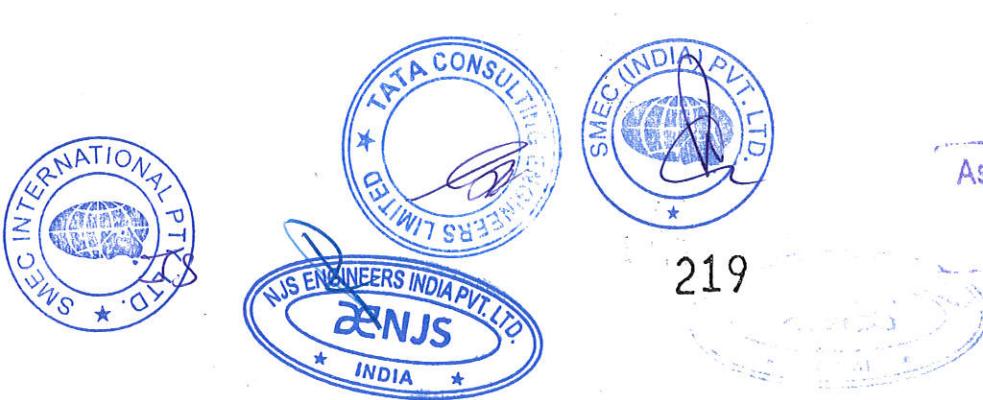
The experience in Water Treatment Plant in Design, Technical Assistance and Supervision will be considered for the Experts.



Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.

ANNEXURE - I

IMPROVEMENT OF EXISTING WATER DISTRIBUTION SYSTEM								
Sl. No	Zone	Area in Sq.Km	Population	Street length (Km)	Length of Existing Pipeline (Km)	Replacement of choked up mains	Additional Pipes for Hydraulic Reinforcement	Supplementary Pipes in uncovered
						In Km	In Km	In Km
1	Area - IV	21.03	662669	337.81	244.89	97	19.60	45.00
2	Area - V	19.88	862820	260.62	244.11	29	-	16.50
3	Area - VI	25.57	925488	259.76	227.06	32	-	0.00
4	Area - VIII	35.03	1002139	417.4	391.95	25	-	25.50
5	Area - IX	42.54	809427	356.79	342.77	10	14.48	14.02
6	Area - X	34.05	963091	464.93	451.04	116	61.37	1.07
7	Area - XIII	54.25	810049	368.27	305.49	67	5.16	11.09
TOTAL		232.35	6035683	2465.58	2207.31	375	100.61	113.18
							101	113



219

DH
Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.

ANNEXURE - II

Strengthening of Reservoirs					
WDZ	Name of WDZ	Existing Storage Capacity		Proposed Storage Capacity	
		UGT (ML)	OHT (ML)	UGT (ML)	OHT (ML)
Construction of 49.32 ML - 16 Nos , Construction of 4.33 ML UGT- 1 No, New Service Reservoirs					
1	Kilpauk	81.32	15.8		2.54
2	Anna Poonga	22.50	2.5		2.61
3	Kannapar Thidal	16.00			4.80
4	Triplicane	10.00	2.4		0.62
5	KK Nagar	14.00	2.4		3.73
6	Velachery	6.00			3.20
6A	Velachery New	2.00			0.50
7	Ekkadu Thangal	4.50			0.61
8	Choolai Medu	43.00			9.25
9	Kolathur	20.00			3.34
10	Vysarpadi	22.00			6.28
11	Patel Nagar	14.00			3.36
12	Pallipattu	17.00	0.75		1.08
12A	Thiruvanmiyur	3.00	0.75	4.33	1.69
13	Nandanam	11.00			1.93
14	Mylapore	11.50			3.79
15	Southern Headworks	24.00	4.5		0.00
16	Valluvar Kottam	15.00	3		0.00
Total		336.82	32.10	4.33	49.33



Assistant Contracts Engineer
Q.M.W.S.S. Board
Chennai-600 002.

ANNEXURE - III

Quantification of Service Connections and Water Meters in the Project

Admin Area	Existing Assesses and Connections in 2016			
	Total Assesses	Meter	Flat	Total
I	44472	112	6,814	6,926
II	23,356	33	7,166	7,199
III	52,361	283	6,313	6,596
IV	75,284	1708	57,157	58,865
V	69,902	9572	35,390	44,962
VI	83,635	1767	66,491	68,258
VII	97,245	1727	22,917	24,644
VIII	1,08,800	2152	81,603	83,755
IX	1,14,435	4159	89,803	93,962
X	1,40,404	1455	1,07,832	1,09,287
XI	90,921	755	25,642	26,397
XII	65,467	386	37,428	37,814
XIII	1,19,844	1805	83,970	85,775
XIV	79,629	78	10,890	10,968
XV	51,869	277	7,654	7,931
Total	12,17,624	26269	6,47,070	6,73,339



Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.

221



CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD

No. 1, Pumping Station Road, Chintadripet, Chennai - 600 002.

SUPERINTENDING ENGINEER
CONTRACTS & MONITORING

Lr. No. CMWSSB/ CNT/ CON/DESAL /ICB/Gol/016 /2018-19

Dt: 09.02.2019

To

M/s.SMEC International Pty Limited, Australia in consortium with M/s.NJS Engineers India Pvt Ltd, Pune, M/s.Tata Consulting Engineers Ltd, Navi Mumbai, M/s.SMEC India Pvt Ltd, Haryana

Sir,

Sub: CMWSSB - C&M Wing - Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works – Request For Proposal sent to the shortlisted consultants – Reply to queries - II & Addendum - II forwarded - Reg.

Ref: Contract No. CNT/ CON/DESAL /ICB/Gol/016 /2018-19

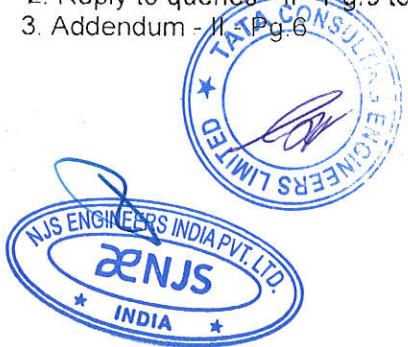
-o0o-

With reference to the above work, the Reply to queries - II & Addendum - II has been prepared and enclosed herewith. You are requested to take these Reply to queries - II & Addendum - II into due consideration while submitting your proposal. All the other terms and conditions already stipulated remain unaltered. The proposal submission deadline is up to 3.00 P.M. on 21.02.2019.

You are requested to acknowledge the receipt of this Reply to queries - II & Addendum - II to this office immediately on receipt of this letter by email.

[Signature]
SUPERINTENDING ENGINEER (C&M) 9/2

- Encl : 1. Confirmation Letter – Pg. 2
2. Reply to queries - II – Pg. 3 to 5
3. Addendum - II – Pg. 6



223

Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.

Reply to queries - II & Addendum - II

Name of Work: Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works

Tender No: CNT/ CON/DESAL /ICB/Gol/016 /2018-19.

-oo-

We have taken into due consideration of the Reply to queries - II & Addendum - II while submitting our proposal.

Signature of Consultant

Name and address of Consultant





Name of Work: Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works

Tender No: CNT/ CON/DESAL /ICB/GO/016 /2018-19

Replies to Queries II - 2nd Set

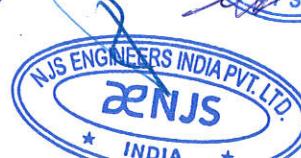
Sl. No.	REFERENCE - Additional Information Sought from CMWSSB Reply to the Query	DESCRIPTION	REQUEST FOR CLARIFICATION / CONFIRMATION	REPLY BY CMWSSB
117	Reply to Query No.16	Definition of Developed/Developing countries	<p>There is no definition of Developed/Developing countries in World Bank. In stead, United Nations Defines the classification of Developed and Developing Countries. This is also followed by CVC, World Bank, ADB etc., Request you to consider the United Nations Definition. Report is available at the Following URL. Please refer to Page No.139.</p> <p>https://www.un.org/development/desa/dpad/wpcontent/uploads/sites/45/publication/WESP2018_Full_Web-1.pdf</p>	<p>Please Refer Sl. No. 1 of Addendum I</p> <p>Apart from the website mentioned in the answer to Query No.16, the following United Nations website link (World Economic Situation Prospects) shall also be considered.</p> <p>https://www.un.org/development/desa/dpad/wpcontent/uploads/sites/45/publication/WESP2018_Full_Web-1.pdf</p>



225



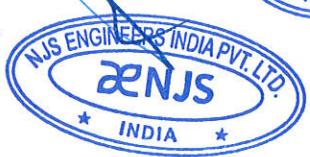
Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.



Sl. No.	REFERENCE - Additional Information Sought from CMWSSB Reply to the Query	DESCRIPTION	REQUEST FOR CLARIFICATION/ CONFIRMATION	REPLY BY CMWSSB
118	Reply to Query No.35	CVs of all the IE/LE are to be included in the bid.	It is normal practice to give CVs of only KEY EXPERTS whose CVs are evaluated. For Non-Key Experts, CVs usually submitted at the time of signing the Agreement. Submitting additional 31 CVs without having guidelines on qualifications in a short duration is difficult. No JICA funded project has this clause of submitting Non-Key CVs along with proposal. Kindly waive the requirement of submitting 31 Non-Key CVs.	Bid Conditions Confirmed.
119	Reply to Query No.4	Qualification for International Experts (IE) and Local Experts (LE)	Qualifications are defined Only for 10 Key positions of Internal National Experts (IE) and Local Experts (LE). However for the remaining 31 International and Local Expert positions, no qualifications are defined. This will lead to mismatch in understanding among the bidders and some bidders may bring experts with less experience and under qualified person and this may have impact on financials also. It is usual practice to define the Qualifications for Non-Key experts also in all JICA funded projects. Attaching Chennai City ITS RFP released last week funded by JICA for your quick reference.	Please Refer Sl. No. 2 of Addendum 1 Qualification & Experience of Non - Key Experts. International Expert (For 12 Experts): Qualification: Bachelor Degree in the respective field. Local Experts (For 19 Experts): Qualification: Bachelor Degree in the respective field. Experience: Minimum 5 years of work experience in similar nature of work.

Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.

Sl. No.	REFERENCE - Additional Information Sought from CMWSSB Reply to the Query	DESCRIPTION	REQUEST FOR CLARIFICATION/ CONFIRMATION	REPLY BY CMWSSB
120	Reply Query No.4	Qualification to technical Support staff	Request to kindly to define the Minimum qualifications for technical support staff so that all bidders will have same understanding in proposing the technical support staff. In absence of such information, some bidders may propose under qualified staff to make their bid less costly.	Consultant may assign the required supporting staffs to accomplish the tasks outlined in the TOR. Bid Conditions Confirmed.



Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.



Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.

ADDENDUM - II

Sl. No	Original Clause as Existing in Bid Document	Page No as per tender and associated volume	Addendum
1	TOR 5. Staffing & Clause 14.2, Data Sheet of Instruction to Consultants	TOR 5. Staffing 84 & Clause 14.2, Data Sheet, Page 28	<p>Developed/Developing countries</p> <p>The following United Nations website link (World Economic Situation Prospects) shall also be considered for the list of Developed/Developing countries.</p> <p>https://www.un.org/development/desa/dpad/wpcontent/uploads/sites/45/publication/WESP2018_Full_Web-1.pdf</p>
2	TOR. 5. STAFFING	TOR. 5. STAFFING, Pg No. 84	<p>TOR. 5. STAFFING Qualification & Experience of Non - Key Experts.</p> <p>International Expert (For 12 Experts): Qualification: Bachelor Degree in the respective field.</p> <p>Local Experts (For 19 Experts): Qualification: Bachelor Degree in the respective field.</p> <p>Experience: Minimum 5 years of work experience in similar nature of work.</p>

ENGINEERING DIRECTOR,i/c



SUPERINTENDING ENGINEER
CONTRACTS & MONITORING

CHENNAI METROPOLITAN
WATER SUPPLY AND
SEWERAGE BOARD

Lr. No. CMWSSB/ CNT/ CON/DESAL /ICB/Gol/016 /2018-19

Dt: 15.02.2019

To

M/s.SMEC International Pty Limited, Australia in consortium with M/s.NJS Engineers India Pvt Ltd, Pune, M/s.Tata Consulting Engineers Ltd, Navi Mumbai, M/s.SMEC India Pvt Ltd, Haryana.

Sir,

Sub: CMWSSB - C&M Wing - Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works – Request For Proposal sent to the shortlisted consultants – Addendum - III forwarded - Reg.

Ref: Contract No. CNT/ CON/DESAL /ICB/Gol/016 /2018-19

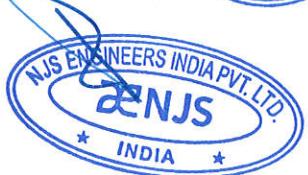
-00o-

With reference to the above work, the Addendum - III has been prepared and enclosed herewith. You are requested to take these Addendum - III into due consideration while submitting your proposal. All the other terms and conditions already stipulated remain unaltered. The proposal submission deadline is up to 3.00 P.M. on 11.03.2019.

You are requested to acknowledge the receipt of this Addendum - III to this office immediately on receipt of this letter by email.

J. J. Savai
SUPERINTENDING ENGINEER (C&M) 15/2

Encl : 1. Confirmation Letter – Pg. 2
2. Addendum - III - Pg.3



229

Assistant Contracts Engineer
O.M.W.S.S. Board
Chennai-600 002.

Addendum - III

Name of Work: Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works

Tender No: CNT/ CON/DESAL /ICB/Gol/016 /2018-19.

-00-

We have taken into due consideration of the Addendum - III while submitting our proposal.

Signature of Consultant

Name and address of Consultant

CHENNAI, TAMIL NADU, INDIA



230

Assistant Contracts Engineer
C.M.W.C.S. Board
Chennai-600 002.



Name of Work: Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works

Tender No: CNT/CON/DESAL /ICB/Gol/016 /2018-19

ADDENDUM - III

Sl. No	Reference in the Request For Proposal	As Existing	As Amended
1.	Data Sheet Clause 12.5, Pg No. 26	Data Sheet Clause 12.5 & 12.6 Time and date of the Proposal submission deadline: - Time: 3.00 PM - Date: 21.02.2019	Data Sheet Clause 12.5 & 12.6 Time and date of the Proposal submission deadline: - Time: 3.00 PM - Date: 11.03.2019



231

Sd/15.02.2019

S.E(C&M)

Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.



SUPERINTENDING ENGINEER
CONTRACTS & MONITORING

CHENNAI METROPOLITAN
WATER SUPPLY AND
SEWERAGE BOARD

Lr. No. CMWSSB/ CNT/ CON/DESAL /ICB/Gol/016 /2018-19

Dt: 15.02.2019

To

M/s.SMEC International Pty Limited, Australia in consortium with M/s.NJS Engineers India Pvt Ltd, Pune, M/s.Tata Consulting Engineers Ltd, Navi Mumbai, M/s.SMEC India Pvt Ltd, Haryana.

Sir,

Sub: CMWSSB - C&M Wing - Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works – Request For Proposal sent to the shortlisted consultants – Addendum - III forwarded - Reg.

Ref: Contract No. CNT/ CON/DESAL /ICB/Gol/016 /2018-19

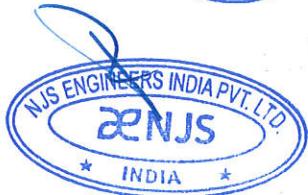
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With reference to the above work, the Addendum - III has been prepared and enclosed herewith. You are requested to take these Addendum - III into due consideration while submitting your proposal. All the other terms and conditions already stipulated remain unaltered. The proposal submission deadline is up to 3.00 P.M. on 11.03.2019.

You are requested to acknowledge the receipt of this Addendum - III to this office immediately on receipt of this letter by email.

J. Devanayagam
SUPERINTENDING ENGINEER (C&M) 15/2

Encl : 1. Confirmation Letter – Pg. 2
2. Addendum - III - Pg.3



232

Assistant Contracts Engineer
C.M.W.S.S., Board
Chennai-600 002.

Addendum - III

Name of Work: Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works

Tender No: CNT/ CON/DESAL /ICB/Gol/016 /2018-19.

-0o-

We have taken into due consideration of the Addendum - III while submitting our proposal.

Signature of Consultant

Name and address of Consultant



233



Dh
Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002

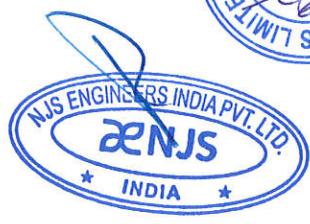


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Tender No: CNT/CON/DESAL/ICB/Gol/016 /2018-19

ADDENDUM - III

Sl. No	Reference in the Request For Proposal	As Existing	As Amended
1.	Data Sheet Clause 12.5, Pg No. 26	Data Sheet Clause 12.5 & 12.6 Time and date of the Proposal submission deadline: - Time: 3.00 PM - Date: 21.02.2019	Data Sheet Clause 12.5 & 12.6 Time and date of the Proposal submission deadline: - Time: 3.00 PM - Date: 11.03.2019

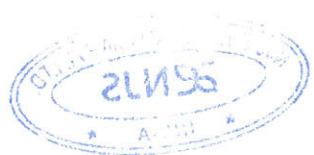


234

Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.

Sd/15.02.2019
S.E(C&M)

SL





CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD

No.1, Pumping Station Road, Chintadripet, Chennai - 600 002.

SUPERINTENDING ENGINEER
CONTRACTS & MONITORING

Lr. No. CMWSSB/ CNT/ CON/DESAL /ICB/Gol/016 /2018-19

Dt: 18.02.2019

To

M/s.SMEC International Pty Limited, Australia in consortium with M/s.NJS Engineers India Pvt Ltd, Pune, M/s.Tata Consulting Engineers Ltd, Navi Mumbai, M/s.SMEC India Pvt Ltd, Haryana

Sir,

Sub: CMWSSB - C&M Wing - Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works – Request For Proposal sent to the shortlisted consultants – Reply to queries – 3rd set forwarded - Reg.

Ref: Contract No. CNT/ CON/DESAL /ICB/Gol/016 /2018-19

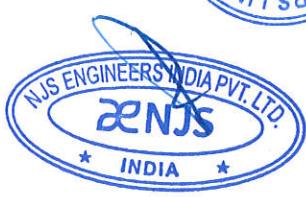
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With reference to the above work, the Reply to queries – 3rd set has been prepared and enclosed herewith. You are requested to take these Reply to queries – 3rd set into due consideration while submitting your proposal. All the other terms and conditions already stipulated remain unaltered. The proposal submission deadline is up to 3.00 P.M. on 11.03.2019.

You are requested to acknowledge the receipt of this Reply to queries – 3rd set to this office immediately on receipt of this letter by email.

J. Ravai
SUPERINTENDING ENGINEER (C&M) 18/2

Encl : 1. Confirmation Letter – Pg. 2
2. Reply to queries – 3rd set - Pg.3



235

Assistant Contracts Engineer
Q.M.W.S.S. Board
Chennai-600 002.

Reply to queries – 3rd set

Name of Work: Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works

Tender No: CNT/ CON/DESAL /ICB/Gol/016 /2018-19.

-oo-

We have taken into due consideration of the Reply to queries – 3rd set while submitting our proposal.

Signature of Consultant

Name and address of Consultant



2

236

Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.

Name of Work: Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Parur and all allied works

Tender No: CNT/CQN/DESAL /ICB/Gol/016 /2018-19

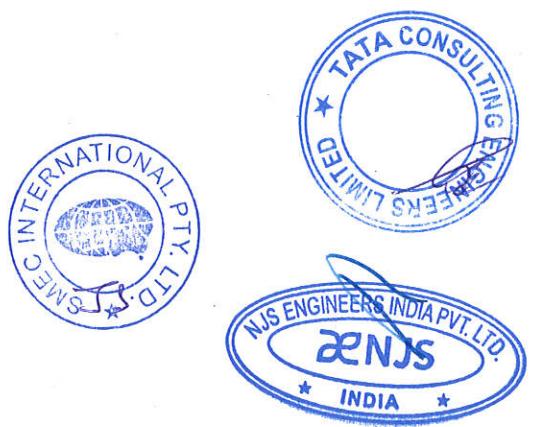
Replies to Queries - 3rd Set

Sl. No.	PRE BID QUERY	REPLY MADE BY CMWSSB	REFERENCE - Additional Information Sought from CMWSSB on the replies to the queries	PROPOSED REPLY BY CMWSSB
Pre bid query No.29	Request to share the final report on the Preparatory Survey for Chennai Seawater Desalination Project	Reports available with CMWSSB will be made available to the successful Bidder. Bid Conditions are Confirmed.	Report to be made available to all bidders so that all are aware of the project studies undertaken since the time provided for bidding is less and the complexity of the project warrants referring such documents	Bid Conditions Confirmed.
2	Pre bid query No.35	Relevant experience as per TOR 5 is expected for all the non key experts. Please refer answer to Query No.4.	Field assessment that sourcing such large number of international CVs and Local CVs relating to Desalination Plant which is unique in nature is enormous task and that too with conditions of developed and developing countries experience.	Considering the time involved in the collection and submission of CVs of all the IE/LE, the due date for the submission of proposal has been extended upto 11.03.2019.
		CVs of all the IE/LE are to be included in the bid.	Considering the above, extension for submission of RFP is requested upto 11.03.2019.	Sd/18.02.2019 Chief Engineer(O&M)-II



Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.

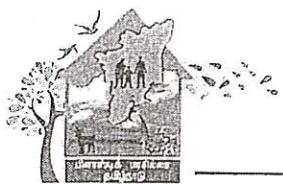
Appendix K: Letter of Award



238

DL
Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.





CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD

MANAGING DIRECTOR

Lr. No. CMWSSB/ CNT/CON/DESAL/ICB/Gol/016/2018-19

dt.05.11.2019

To

M/s.SMEC International Pty Limited, Australia in consortium with M/s.NJS Engineers India Pvt Ltd, Pune, M/s.Tata Consulting Engineers Ltd, Navi Mumbai, M/s.SMEC India Pvt Ltd, Haryana.
1st Floor, Novus Tower, West Wing,
Plot Number – 18, Sector-18,
Gurgaon – 122015,
Haryana.

Sir,

Sub: CMWSSB - Contracts - Consultancy for Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its product Water Conveyance Pipeline from the Plant and upto Porur and all allied works – Consultancy proposal accepted – Letter of Acceptance issued - Reg.

Ref: 1. Proposal No.CNT/CON/DESAL/ICB/Gol/016/2018-19
2. Your proposal dt.11.03.2019.

-oO-

- With reference to your offer for the above consultancy services under proposal No.CNT/CON/DESAL/ICB/Gol/016/2018-19, received on 11.03.2019 and all subsequent correspondences made between you and CMWSS Board, the competent authority is pleased to accept your offer for the above consultancy services at the value of INR.57,55,55,630.00 (Rupees Fifty Seven Crore Fifty Five Lakh Fifty Five Thousand Six Hundred Thirty Only) and in USD, \$9,411,963 (Nine Million Four Hundred Eleven Thousand Nine hundred Sixty Three Dollars Only) totaling to INR 124,22,37,929.00.
- Payments for this Consultancy will be made as per the clause 6 in Payments to the Consultant of General Conditions of Contract.
- As per the Clause 2.1 of Special Conditions of Contract of Request For Proposal, you are requested to furnish the Performance Security for INR.1,24,23,000.00 (Rupees One Crore Twenty Four Lakh Twenty Three Thousand only) for this consultancy services in the form of irrevocable Contract Performance Bank Guarantee from any of the Scheduled/Nationalized Bank and execute the agreement within 15 days from the date



Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.

239

of receipt of Letter of Acceptance and the Performance Security should be valid upto one year beyond the date of completion of consultancy contract period.

4. The Professional personnel for the man months as per the details specified in your original proposal should be furnished before signing the agreement. At the end of each month, a certificate for the man months put in will have to be furnished by you.
5. The consultancy work should be completed within 89 (Eighty Nine) months. For taking up the work and for further action, you are requested to contact Superintending Engineer (Desal).
6. Pending execution of the Contract Agreement, you are requested to plan immediate advance action to mobilize the project team and to commence the works immediately.
7. You may contact the Superintending Engineer (Contract & Monitoring) for clarification, if any, in this matter.
8. Please acknowledge this receipt of letter of acceptance and proceed accordingly.



MANAGING DIRECTOR



240

Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.



Appendix L: Performance Bank Guarantee



241

Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002:



STATE BANK OF INDIA
CORPORATE ACCOUNTS
GROUP, MUMBAI
23 J N HEREDIA
MARG, NEVILLE HOUSE,
BALLARD ESTATE
MUMBAI INDIA

Tel No. : 912261542571/91
Fax No. : 61542570 / 2580
SWIFT No. : SBININBB162
PIN Code : 400001

19-11-2019

THE MANAGING DIRECTOR,
CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD,
NO.1, PUMPING STATION ROAD,
CHINTADRIPET,
CHENNAI - 600 002

Dear Sirs,

GUARANTEE NUMBER

0999519BG0001764

AMOUNT OF GUARANTEE

INR 3,000,000.00

GUARANTEE COVER FROM

19-11-2019 TO 15-11-2022

LAST DATE FOR LODGEMENT OF CLAIM

15-11-2023

THIS DEED OF GUARANTEE IS EXECUTED BY THE STATE BANK OF INDIA, CONSTITUTED UNDER THE STATE BANK OF INDIA ACT, 1955 HAVING THE CENTRAL OFFICE AT NARIMAN POINT, MUMBAI AND AMONGST OTHER PLACES, A BRANCH AT CORPORATE ACCOUNTS GROUP, MUMBAI HEREIN AFTER REFERRED TO AS 'THE BANK') IN FAVOUR OF THE MANAGING DIRECTOR, (HEREIN AFTER REFERRED TO AS 'BENEFICIARY') FOR AN AMOUNT NOT EXCEEDING INR 3,000,000.00

AT THE REQUEST OF TATA CONSULTING ENGINEERS LTD. AND THE GUARANTEE SHALL REMAIN IN FULL FORCE UPTO 15-11-2022 AND CANNOT BE INVOKED OTHERWISE THAN BY WRITTEN DEMAND OR CLAIM UNDER THIS GUARANTEE SERVED ON THE BANK ON OR BEFORE THE 15-11-2023

SUBJECT TO AS AFORESAID

NOTWITHSTANDING ANYTHING CONTAINED HEREIN ABOVE, OUR LIABILITY UNDER THIS GUARANTEE IS RESTRICTED TO INR 3,000,000.00

OUR GUARANTEE SHALL REMAIN IN FORCE UNTIL 15-11-2022. UNLESS A DEMAND OR CLAIM UNDER THE GUARANTEE IS MADE ON OUR BANK IN WRITING ON OR BEFORE 15-11-2023 ALL YOURS RIGHTS UNDER THE SAID GUARANTEE BE FORFEITED AND WE SHALL BE RELIEVED AND DISCHARGED FROM ALL LIABILITIES THEREUNDER.

M. Karande
AUTHORIZED SIGNATORY

Nov 19, 2019 11:56 PM - दिनांक
MOHESHWAR KARHADKAR
K-8427



Priyanka S. Karande
AUTHORIZED SIGNATORY

प्रियंका सं. कारंडे
Priyanka S. Karande
K-13725



242

Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.



महाराष्ट्र MAHARASHTRA

● 2019 ●

AU 201665

प्रधान मुद्रांक कार्यालय, मुंबई^३
प.म. नं - 100000

23 OCT 2019

सक्षम आधिकारी

श्री, सौ. टी. आंबेकर

This Stamp paper is an integral part of bank
Guarantee / Bank Guarantee Amendment
No. 09995 19 BG0001764 executed by us
on 19 NOV 2019



FOR STATE BANK OF INDIA

Acchre *Patavale*
DY. MANAGER (TRADE FINANCE) DY. MANAGER (TRADE FINANCE)
SAG Br. MUMBAI, Br. CODE :09995
BALLARD ESTATE, MUMBAI-400001

Bank Guarantee
No. 09995 19 BG0001764

Date: 19 NOV 2019



मोरेश्वर कर्हाडकर
K-8423

Priyanka S. Karande
Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.

Performance Guarantee

Beneficiary:

The Managing Director,
Chennai Metropolitan Water Supply and Sewerage Board,
No.1, Pumping Station Road,
Chintadripet,
Chennai – 600 002

Date: 19.11.2019.

PERFORMANCE GUARANTEE No.: 0999519 BG 0001764

Guarantor: STATE BANK OF INDIA, Corporate Accounts Group, J.N Heredia Marg, Neville House, Ballard Estate, Mumbai 400001.

We have been informed that M/s. TATA Consulting Engineers Limited, Unit No NB1502 SB 1501, 15th Floor, Empire Tower, Cloud City Campus, Opp Reliable Tech Park, Thane-Belapur Road, Airoli, Navi Mumbai – 400 708 (hereinafter called "the Applicant") has been awarded a project by the Beneficiary, for the execution of Consultancy for Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works (hereinafter called "the Contract") vide Letter No. CMWSSB/CNT/CON/DESAL/ICB/GOI/016/2018-19 dated 06.11.2019.

Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.



At the request of the Applicant, we as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of Rs.30,00,000/- (Rupees Thirty Lakhs only), such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating that the Applicant is in breach of its obligation(s) under the Contract, without the Beneficiary needing to prove or to show grounds for its demand or the sum specified therein.



This guarantee shall expire, no later than the 15th day of November, 2022, and any demand for payment under it must be received by us at this office indicated above on or before that date.

This guarantee is non-transferable and non-assignable.



Bank Guarantee
No. 0999519 BG0001764
Date... 19 NOV 2019
DNJS

FOR STATE BANK OF INDIA
Shankar *Bharande*
D.Y. MANAGER (TRADE FINANCE)
CAG Br. MUMBAI, Dr. CODE: 09995
BALLARD ESTATE, MUMBAI 400001 S. Board
ASSISTANT FACTS ENGINEER
C.M.W.
Chennai-600 002.
प्रियका सं. कार्ते

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758 except that the supporting statement under Article 15(a) is hereby excluded.

NOT WITHSTANDING anything to the contrary contained herein.

- a) Our Liability under this Guarantee shall not exceed Rs.30,00,000/- (Rupees Thirty Lakh Only)
- b) This Bank Guarantee shall be valid up to 15.11.2022.
- c) The beneficiary's right as well the Bank's liability under this Guarantee shall stand extinguished unless a written claim or demand is made under this Guarantee on or before 15.11.2023.

Bank Guarantee
No. 09995 19BG0001964
Date... 19 NOV. 2019

FOR STATE BANK OF INDIA
J. S. Karande
DY. MANAGER (TRADE FINANCE) CAG Br. MUMBAI, Br. CODE :09995
BALLARD ESTATE, MUMBAI-400001

मोरेश्वर कर्हाडकर
MORESHWAR KARHAOKAR
K-8427

प्रियंका सं. कारंडे
Priyanka S. Karande
K-13725



245

D
Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.



STATE BANK OF INDIA
CORPORATE ACCOUNTS
GROUP, MUMBAI
23 J N HEREDIA
MARG, NEVILLE HOUSE,
BALLARD ESTATE
MUMBAI INDIA

Tel No. : 912261542571/91
Fax No. : 61542570 / 2580
SWIFT No. : SBININBB162
PIN Code : 400001

To,
THE MANAGING DIRECTOR,
CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD,
NO.1, PUMPING STATION ROAD,
CHINTADRIPET,
CHENNAI - 600 002

19-11-2019

DEAR SIR(S),

Guarantee Number	0999519BG0001764
Date of Issue	19-11-2019
Guarantee Amount	INR 3,000,000.00
Date of Expiry	15-11-2022
Date of Claim	15-11-2023
Applicant Name	TATA CONSULTING ENGINEERS LTD

We confirm having Issued / Extended the captioned Bank Guarantee in your favour on behalf of our above named Constituent and the same signed by the officers of the Bank.

YOURS FAITHFULLY,

AUTHORIZED SIGNATORY - 1
MORESHWAR KARHADKAR
K-8427

*AUTHORIZED SIGNATORY - 2

(*2nd signatory required, if BG is for Rs. 50000/- and above)

प्रियंका सं. कारण्डे
Priyanka S. Karande

The beneficiaries are advised in their own interest to verify the genuineness of the Guarantee with the BG issuing Branch and also verify that Bank Guarantee for Rs.50000/- (Rupees Fifty Thousand Only) & above is signed by two authorized officials of the Bank.

PLEASE CONTACT BRANCH FOR eTradeSBI FACILITY-INTERNET ACCESS TO TRADE FINANCE

Nov 19, 2019 4:56 PM



245

Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.



सत्यमेव जयते

INDIA NON JUDICIAL

Government of National Capital Territory of Delhi

e-Stamp

Certificate No.
Certificate Issued Date
Account Reference
Unique Doc. Reference
Purchased by
Description of Document
Property Description
Consideration Price (Rs.)

First Party
Second Party
Stamp Duty Paid By
Stamp Duty Amount(Rs.)

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: HDFC BANK LTD
: Article Bank Guarantee
: Not Applicable
: 0
 (Zero)
: HDFC BANK LTD
: Not Applicable
: HDFC BANK LTD
: 100
 (One Hundred only)



Please write or type below this line.....



For HDFC BANK LTD.

Jitendra
Authorised Signatory

NARENDRA KUMAR
Deputy Vice President
A0247

This Non-Judicial Stamp Paper Form Part and Part of
Bank Guarantee No. a3670219322011 Dated 18/11/19



For HDFC BANK LTD.

Priya Nigam
Authorised Signatory

PRIYA NIGAM
Senior Manager
B-17100



247

Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002

Statutory Alert:

- The authenticity of this Stamp Certificate should be verified at "www.snclestamp.com". Any discrepancy in the details on this Certificate and as available on the website renders it invalid.
- The onus of checking the legitimacy is on the users of the certificate.

Bank Guarantee No. 003GT02193220011 Dated-18-NOV-2019

To

Managing Director

Chennai Metropolitan Water Supply and Sewerage Board

No.1, Pumping Station Road, Chintadripet, Chennai-600002

Date: [18-NOV-2019]

PERFORMANCE GUARANTEE No.: [003GT02193220011]

Guarantor: HDFC Bank Ltd. having its Registered Office at HDFC Bank House, C.S. No. 6/242, Senapati Bapat Marg, Lower Parel (West), Mumbai 400013 and other places, a branch at E-13/29, 2nd Floor, Harsha Bhavan, Middle Circle, Connaught Place, New Delhi 110001 (hereinafter referred as "Bank")

We have been informed that SMEC International Pty. Ltd., First Floor, Novus Tower, West Wing, Plot No.-18, Sector-18, Gurgaon-122015, Haryana (hereinafter called "the Applicant") has been awarded a project by the Beneficiary, for the execution of Consultancy for Design, Preparation of Bid Documents & Evaluation of Bids for the proposed Construction of 400 MLD Capacity seawater reverse osmosis Desalination plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the proposed Desalination Plant and its product water Conveyance pipeline from the Plant and upto Porur and all allied works" (hereinafter called "the Contract") via Letter No.CMWSSB/CNT/CON/DESAL/ICB/Goi/016/2018-19 dated 06.11.2019.

Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.

At the request of the Applicant, we as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of INR 48,60,423/- (INR Forty Eight Lakhs Sixty Thousand Four Hundred Twenty Three only) such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating that the Applicant is in breach of its obligation(s) under the Contract, without the Beneficiary needing to prove or to show grounds for its demand or the sum specified therein.

This guarantee shall expire, no later than the 15 th day of November, 2022, and any demand for payment under it must be received by us at this office indicated above on or before that date.

This guarantee is non-transferable and non-assignable.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758 except that the supporting statement under Article 15(a) is hereby excluded.

NOTWITHSTANDING ANYTHING CONTAINED HEREIN ABOVE:

1. Our liability under this bank guarantee shall not exceed INR 48,60,423/- (INR Forty Eight Lakhs Sixty Thousand Four Hundred Twenty Three only)

2. This bank guarantee shall be valid up to 15th Nov 2022.

3. We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only if you serve upon us a



For HDFC BANK LTD.

NARENDRA KUMAR
Authorised Signatory
Deputy Vice President
A0247



248

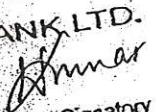
Authorised Signatory

PRIYA NIGAM
Senior Manager

Bank Guarantee No. 003GT02193220011 Dated-18-NOV-2019

Written claim or demand (and should be received by us), on or before 15-NOV-2023 before 14.00 hours IST where after it ceases to be in effect in all respects whether or not the original bank guarantee is returned to us.

Dated 18-NOV-2019 at DELHI, for HDFC Bank Ltd			
	Notwithstanding anything contained hereinabove:		
1	Our liability under this Bank Guarantee shall not exceed Rs. Rupees FORTY EIGHT LAKHS SIXTY THOUSAND FOUR HUNDRED AND TWENTY THREE ONLY	4860423	All claims under this Guarantee shall be payable at DELHI
2	This Bank Guarantee shall be valid up to 15-NOV-2022		This Guarantee will be returned to us as soon as the purpose for which it is issued is fulfilled.
3	We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if you serve upon us a written claim or demand in terms of the guarantee lodged at our bank counter on or before 15-NOV-2023 (claim period) failing which the Bank shall stand released and discharged from any liability whatsoever under this guarantee.		The BG confirmation No GTEE 1018329/integral part 003GT02193220011 and must be attached thereto.

For HDFC BANK LTD.

 Authorised Signatory

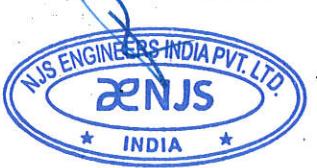
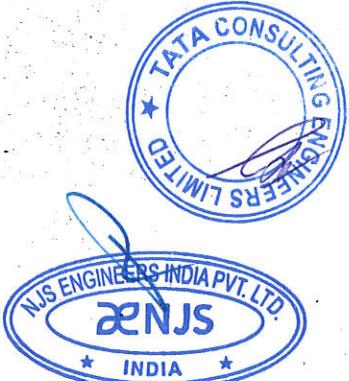
NARENDRA KUMAR
 Deputy Vice President
 A0247



For HDFC BANK LTD.


 Authorised Signatory

PRIYA NIGAM
 Senior Manager
 B-17100



249


 Assistant Contracts Engineer
 C.M.W.S.S. Board
 Chennai-600 002.



We understand your world

Date 18/11/19

Form Serial No. GTEE/ 1018329

To,

MANAGING DIRECTOR, CHENNAI
METROPOLITAN WATER SUPPLY AND
SEWERAGE BOARD NO. 1, PUMPING STATION
ROAD, CHINTADRIPET, CHENNAI - 600002

HDFC BANK LTD

E-13/29, 2nd Floor

Harsha Bhavan Middle Circle

Connaught Place

New Delhi 110001

GSTN of Consignee :
07AAACH2702H1Z2

OUR REFERENCE	: 003GT02193220011
DATE OF ISSUE	: 18-NOV-2019
APPLICANT	: SMEC INTERNATIONAL PTY LTD
GUARANTEE AMOUNT	: INR 4,860,423.00
AMOUNT IN WORDS	: RUPEES FOUR MILLION EIGHT HUNDRED SIXTY THOUSAND FOUR HUNDRED TWENTY THREE ONLY
EXPIRY DATE	: 15-NOV-2022
EXPIRY PLACE	: DELHI
CLAIM DATE	: 15-NOV-2023

DEAR SIR,

PLEASE FIND ENCLOSED THE CAPTIONED GUARANTEE DULY ISSUED BY US.

THIS GUARANTEE ATTACHED IS TO BE RETURNED TO US WITHIN 15 DAYS FROM THE DATE IT CEASES TO BE IN FORCE OR AS SOON AS THE PURPOSE FOR WHICH IT HAS BEEN ISSUED IS FULFILLED, WHICHEVER IS EARLIER.

WE CONFIRM THAT THE SIGNATORIES WHO HAVE SIGNED THE SUBJECT GUARANTEE / EXTENSION AS STATED BELOW HAVE THE REQUISITE POWERS TO SIGN ON BEHALF OF THE BANK.

1. M/s.

2. Mr./Ms.

PRIYA NIGAM

Senior Manager

B-17100

Name: Narendra Kumar Designation:
P.A. NO.
P. A. NO.
A0247

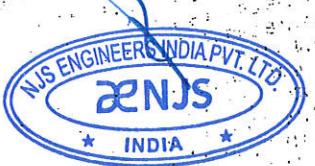
FURTHER CONFIRMATION OF THIS GUARANTEE IF DESIRED, SHOULD BE OBTAINED FROM THE ABOVE MENTIONED BRANCH.

THIS LETTER FORMS AN INTEGRAL PART OF THE GUARANTEE.

FOR HDFC BANK LTD.



AUTHORISED SIGNATORY/S



250

Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.



DATE : 18NOV19

OUR REF: LETTER OF GUARANTEE
316020725029-GP

AMOUNT :
INR2,020,882.00

CHENNAI METROPOLITAN
SUPPLY AND SEWERAGE
NO.1, PUMPING STATION RD
ADRIPET, CHENNAI-600002

ICANT : SMEC (INDIA) PRIVATE LIMITED 1ST FLOOR, NOVUS TOWER

L/G ADVISING

BY REQUEST OF OUR PRINCIPAL, SMEC (INDIA) PRIVATE LIMITED 1ST FLOOR, NOVUS TOWER, WE ENCLOSURE THE ABOVE ORIGINAL GUARANTEE IN FAVOUR.

WE FIRM THAT THE CAPTIONED GUARANTEE IS ISSUED BY US AND END BY OUR AUTHORISED SIGNATORIES AND RECORDED ON OUR BOOKS ON BEHALF OF SMEC (INDIA) PRIVATE LIMITED 1ST FLOOR, NOVUS TOWER.

FOR YOUR OWN INTERESTS, YOU MAY VERIFY THE GENUINENESS OF THE GUARANTEE WITH THE ISSUING OFFICE.

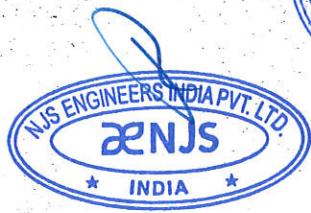
PARTIES TO THIS TRANSACTION ARE ADVISED THAT BANKS MAY NOT BE ABLE TO PROCESS A TRANSACTION THAT INVOLVES COUNTRIES, ORGANISATIONS, ENTITIES, VESSELS OR INDIVIDUALS SANCTIONED BY THE UNITED NATIONS, THE UNITED STATES, THE EUROPEAN UNION, THE UNITED KINGDOM OR ANY OTHER RELEVANT GOVERNMENT AND/OR AUTORITY AUTHORITY AND THAT SUCH AUTHORITIES MAY REQUIRE DISCLOSURE OF INFORMATION.

IS NOT LIABLE IF IT, OR ANY OTHER PERSON FAILS OR ATTEMPTS TO PERFORM THE TRANSACTION OR DISCLOSES INFORMATION AS A RESULT OF ACTUAL OR POTENTIAL BREACH OF SUCH SANCTIONS.

STANDARD CHARTERED BANK

Umesh Kumar *DMW*

STANDARD CHARTERED BANK
DE SERVICES-NEW DELHI
7TH FLOOR DLF BUILDING NO.7A,
CYBER CITY, SECTOR -23/24/25A
GHAON - 122 002, INDIA.
PHONE : 1800 266 2888



251

Assistant Contracts Engineer
C.A. & S. Board
Chennai-600 002.

INDIA NON JUDICIAL



सत्यमेव जयते

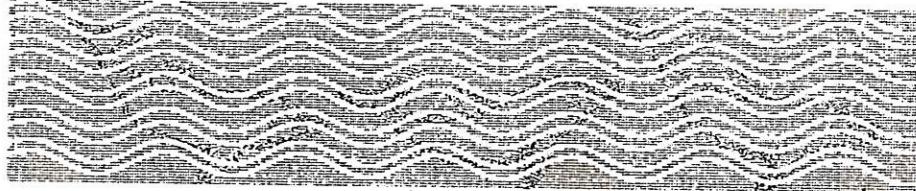
Government of National Capital Territory of Delhi

e-Stamp

Certificate No.
Certificate Issued Date
Account Reference
Unique Doc. Reference
Purchased by
Description of Document
Property Description
Consideration Price (Rs.)

First Party
Second Party
Stamp Duty Paid By
Stamp Duty Amount(Rs.)

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14-Nov-2019-11:25 AM
IMPACC (INV) 736003 DELHI/ DL/ DLH
SUBIN-DL/ 73600373874972171854R
STANDARD CHARTERED BANK
Article Bank Guarantee
Not Applicable
0
(Zero)
STANDARD CHARTERED BANK
Not Applicable
STANDARD CHARTERED BANK
100
(One Hundred only)



Please write or type below this line.....

This Stamp Paper Forms
an Integral part of Bank
Guarantee No. 316020725029-GP

Dated... 18-11-19



Page 1/3

DL
Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002

Statutory Alert:

1. The authenticity of this Stamp Certificate should be verified at "www.shcilestamp.com". Any discrepancy in the details on this Certificate and as available on the website renders it invalid.

E SERVICES-NEW DELHI
FLOOR DLF BUILDING NO.7A,
CYBER CITY,SECTOR -23/24/25A
PIN - 122 002,INDIA.

LETTER OF GUARANTEE	OUR REF. NO. 316020725029-GP
DATE : 18NOV19	

E MD, CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD, NO. 1, PUMPING STATION RD, INTADRIPET, CHENNAI-600002

AMOUNT INR 2,020,882.00 ***

PERFORMANCE GUARANTEE

BENEFICIARY:

DIRECTOR
CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD
PUMPING STATION ROAD, CHINTADRIPET, CHENNAI-600002

18.11.2019

PERFORMANCE GUARANTEE NO. : 316020725029

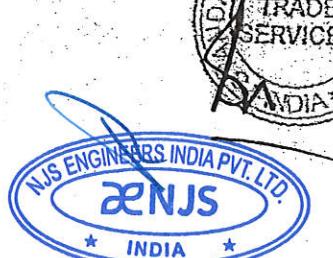
GUARANTOR: STANDARD CHARTERED BANK TRADE SERVICES, 1ST FLOOR, GESS BUILDING, 9/10, BAHADUR SHAH ZAFAR MARG, NEW DELHI - 110002, FAX: 011-41509792

I HAVE BEEN INFORMED THAT SMEC INDIA PVT. LTD., FIRST FLOOR, TOWER, WEST WING, PLOT NO-18, SECTOR-18, GURGAON-122015, TANA (HEREINAFTER CALLED 'THE APPLICANT') HAS BEEN AWARDED A PROJECT BY THE BENEFICIARY, FOR THE EXECUTION OF CONSULTANCY FOR DESIGN, PREPARATION OF BID DOCUMENTS AND EVALUATION OF BIDS FOR PROPOSED CONSTRUCTION OF 400 MLD CAPACITY SEAWATER REVERSE OSMOSIS DESALINATION PLANT AT PERUR ALONG EAST COAST ROAD, SOUTH CHENNAI, TAMIL NADU AND CONSTRUCTION MANAGEMENT AND SUPERVISION FOR THE PROPOSED DESALINATION PLANT AND ITS PRODUCT CONVEYANCE PIPELINE FROM THE PLANT AND UPTO PORUR AND ALL RELATED WORKS' (HEREINAFTER CALLED 'THE CONTRACT') VIA LETTER NO. SSB/CNT/CON/DESAI/ICB/GOI/016/2018-19 DATED 06.11.2019.

MOREOVER, WE UNDERSTAND THAT, ACCORDING TO THE CONDITIONS OF CONTRACT, A PERFORMANCE GUARANTEE IS REQUIRED.

THE REQUEST OF THE APPLICANT, WE AS GUARANTOR, HEREBY UNCONDITIONALLY UNDERTAKE TO PAY THE BENEFICIARY ANY SUM OR SUMS NOT EXCEEDING IN TOTAL AN AMOUNT OF INR 2,020,882/- (RUPEES TWENTY TWO THOUSAND EIGHT HUNDRED EIGHTY TWO ONLY) SUCH SUM BEING PAYABLE IN THE TYPES AND PROPORTIONS OF CURRENCIES IN WHICH THE CONTRACT PRICE IS PAYABLE, UPON RECEIPT BY US OF THE BENEFICIARY'S COMPLYING DEMAND SUPPORTED BY THE BENEFICIARY'S STATEMENT, WHETHER IN THE DEMAND ITSELF OR IN A SEPARATE SIGNED DOCUMENT ACCOMPANYING OR IDENTIFYING THE DEMAND, STATING THAT THE APPLICANT IS IN BREACH OF ITS OBLIGATION(S) UNDER THE CONTRACT WITHOUT THE BENEFICIARY NEEDING TO PROVE OR TO SHOW GROUNDS FOR THE DEMAND OR THE SUM SPECIFIED THEREIN.

*** END OF PAGE ONE ***



Page 2/3

Standard
Chartered

B SERVICES-NEW DELHI
ELOOR DLF BUILDING NO. 7A,
CYBER CITY SECTOR -23/24/25A
AON - 122 002, INDIA.

CONTINUATION OF
LETTER OF GUARANTEE
OUR REFERENCE NUMBER
316020725029-GP

GUARANTEE SHALL EXPIRE, NO LATER THAN THE 15TH DAY OF
EMBER, 2022, AND ANY DEMAND FOR PAYMENT UNDER IT MUST BE
IVED BY US AT THIS OFFICE INDICATED ABOVE ON OR BEFORE THAT

GUARANTEE IS NON-TRANSFERABLE AND NON-ASSIGNABLE.

GUARANTEE IS SUBJECT TO THE UNIFORM RULES FOR DEMAND
ANTEES (URDG) 2010 REVISION, ICC PUBLICATION NO. 758 EXCEPT
THE SUPPORTING STATEMENT UNDER ARTICLE 15(A) IS HEREBY
DED.

THSTANDING ANYTHING CONTAINED HEREIN ABOVE:

OUR LIABILITY UNDER THIS BANK GUARANTEE SHALL NOT EXCEED INR
₹ 0,882/- (RUPEES TWENTY LAKH TWENTY THOUSAND EIGHT HUNDRED
TY TWO ONLY).
THIS BANK GUARANTEE SHALL BE VALID UP TO 15TH DAY OF NOVEMBER,

WE ARE LIABLE TO PAY THE GUARANTEED AMOUNT OR ANY PART THEREOF
ER THIS BANK GUARANTEE ONLY IF YOU SERVE UPON US A WRITTEN
IM OR DEMAND (AND SHOULD BE RECEIVED BY US), ON OR BEFORE 15TH
OF NOVEMBER, 2022 BEFORE 14.00 HOURS IST WHERE AFTER IT
SES TO BE IN EFFECT IN ALL RESPECTS WHETHER OR NOT THE
GINAL BANK GUARANTER IS RETURNED TO US.

GNATURE(S))

***** END *****

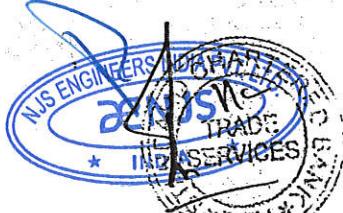


CHARTERED
STANDARD
TRADE
SERVICES
INDIA
VIKAS SURI
Associate Manager-Trade Services
Standard Chartered Bank
Signature No. D8591



FOR STANDARD CHARTERED BANK
VIKASH KUMAR
Officer-Trade Services
Standard Chartered Bank
PSID-1227779101

GB 2 OUT OF 2 PAGE(S)



21
Page 3/3

254

D
Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.



Ref: BG.NO 0039BGFD006520

Date: 19.11.2019

To
Managing Director
Chennai Metropolitan Water Supply and Sewerage Board
No.1, Pumping Station Road, Chintadripet, Chennai-600002
Sub: Issuance of Bank Guarantee

Dear Sir/Madam,

NJS Engineer India Pvt. Ltd. having office at 18, Shailesh Society, Karvenagar, Pune, Maharashtra 411052.

Please find the details mentioned below.

Bank Guarantee No. & date of issue	Expiry date	Claim Expiry date	Amount of Guarantee
BG.NO 0039BGFD006520 Dated 19.11.2019	18.11.2022	18.11.2022	Rs 25,94,525/-

We confirm that the officials who have signed the above Bank Guarantee are authorized to sign such documents on behalf of ICICI Bank Limited. You may verify genuineness of the Bank Guarantee from any branch of ICICI Bank in your own interest.

In the event of invocation, we request you to please ensure compliance with the terms and conditions of the bank guarantee in order to ensure timely payment. You are requested to ensure special care inter alia with respect to the following in the invocation claim letter -

- Bank Guarantee Number
- Expiry/Claim Expiry date
- Claim Amount
- Designated Bank branch for submission of invocation claim
- Any declaration / certification that may be required as part of the guarantee text
- Any other requisite document including the original Bank Guarantee

Thanking you,

Yours faithfully,

For ICICI Bank Limited

Authorized Signatory



Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002;

ICICI Bank Limited
1194/8, Ramchandra,
Sabhamandap, Ghole Road,
Pune – 411 005
Maharashtra, India.



Telephone : 02066280734
Website www.icicibank.com
CIN : L65190GJ1994PLC021012

255

Regd. Office : ICICI Bank Tower, Near Chakli Circle,
Old Padra Road, Vadodara 390 007,
India.

Corp. Office : ICICI Bank Towers, Bandra-Kurla
Complex, Mumbai 400051, India.



महाराष्ट्र MAHARASHTRA

○ 2019 ○

AT 258521

71125

18/11/2019

श. शक्ति 500/-

दूसरा प्रकार वृक्षाद्यारा करण्याची काळी फारपट आहेत का ? हांगे /

मिळकर्त्तव्याचे घटना

कुट्रिंजी विकल्प सेगांधारे नंदें

नंदा

पुढीच्या चक्रवर्तीराचे घटना

मिळकर्त्तव्याचे घटना च पत्ता

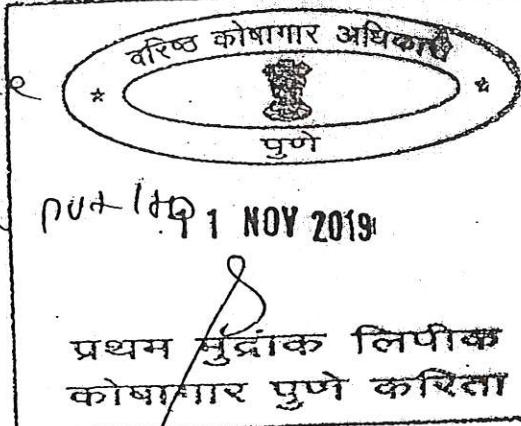
Bank Guarantee

NJS Engineers India
Kothrud, Pune 411028

Madhukar Mone

0011491 NOV 2019

प्रथम मुद्रांक लिपीक
कोषागार पुणे करिता



Mone

मुद्रांक विकल्प संदायाची भासी

अ. श. विकल्पाद्यारा

प्रस्तुती क्र. नं. १८१११२०१९

मासांकांमध्ये वार्षिक वार्षिक, पुणे

प्रकार नं. ००११४९१

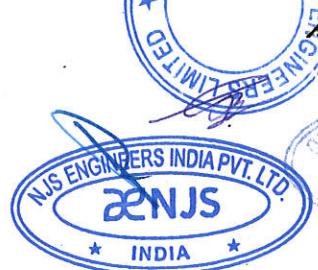
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the Bank Guarantee 0011491 NOV 2019

Issued on 19.11.2019

TATA CONSULTING ENGINEERS LTD.

Bank Limited

Authorised Signatory



256

DL
Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.

भारतीय गोपन्याचक

एक सौ रुपये

Rs. 100

रु. 100

ONE

HUNDRED RUPEES

भारत INDIA

INDIA NON JUDICIAL

महाराष्ट्र MAHARASHTRA

0 2019 0

18 नवंबर

VV 244266

ग्र. श. रक्कम

दस्तगाव प्रकार

100/-

Bank

दस्तगाव नोंदणी कराऱ्यास असेहत का ? हेय /

मिळवतीचे घरांने

मुद्रांक विकात घेण्याचे बंद्य

NJS Engineers India Pvt Ltd

Kothrud, Pune 411028

दुसऱ्या पक्षकाठाचे संघ

madhukar more

हस्त व्यक्तीचे संघ व पता

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आ. श. कैरेक्टरोली

मासमान नं. २२०५४५३

क्रमांक संख्या. कॉडलॉ. लॉट-३/

क्रम नं. ८८८=१८८८८८८८



11 NOV 2019

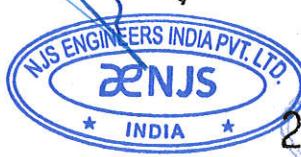
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the Bank Guarantee 003934P0006520

Issued on 19.11.2019



I C I C I B A N K L i m i t e d

Authorised Signatory



Assistant Contracts Engineer
Q.M.W.S.S. Board
Chennai-600 002.

257

BANK GUARANTEE
ICICI Bank Limited
 (incorporated in India)

BG Number: 0039BGFD006520
 Issuing Date: November 18, 2019



1 Performance Security

- 2 Beneficiary:
 3 To
 4 Managing Director
 5 Chennai Metropolitan Water Supply and Sewerage Board
 6 No.1, Pumping Station Road, Chintadripet, Chennai-600002

7 Date: 19.11.2019
 8 PERFORMANCE GUARANTEE No.: 0039BGFD006520

9 Guarantor:
 10 ICICI Bank Ltd, 1194/8, Ramchandra Sabhamandap,
 11 Ghole Road , Shivaji Nagar, Pune 411005

12 We have been informed that NJ S Engineer India Pvt. Ltd. having office at 18, Shailesh Society,
 13 Karvenagar, Pune, Maharashtra 411052, (hereinafter called "the Applicant") has been awarded a
 14 project by Chennai Metropolitan Water Supply and Sewerage Board having office at No.1,
 15 Pumping Station Road, Chintadripet, Chennai-600002 (hereinafter called "the Beneficiary"), for the
 16 execution of Consultancy for Design, Preparation of Bid Documents & Evaluation of Bids for the
 17 proposed Construction of 400 MLD Capacity seawater reverse osmosis Desalination plant at Perur
 18 along East Coast Road, South of Chennai, Tamil Nadu and Construction Management &
 19 Supervision for the proposed Desalination Plant and its product water Conveyance pipeline from
 20 the Plant and upto Ponur and all allied works (hereinafter called "the Contract") via Letter
 21 No.CMWSSB/CNT/CON/DES AL/ICB/GD/016/2018-19 dated 06.11.2019.

22 Furthermore, we the Guarantor understand that, according to the conditions of the Contract, a
 23 performance guarantee is required.

24 At the request of the Applicant, we ICICI Bank Limited having branch office at 1194/8, Ramchandra Sabhamandap, Ghole Road , Shivaji Nagar, Pune 411005 and registered office at ICICI Bank Tower, Near Chakli Circle, Old Padra Road, Vadodara - 390 007. (hereinafter called "the Bank/Guarantor") as Guarantor, hereby irrevocably undertake to pay the Beneficiary
 25 any sum or sums not exceeding in total an amount of Rs. 25,94,525/- (Rupees Twenty Five Lakhs
 26 Ninety Four Thousand Five Hundred Twenty Five only), such sum being payable in the types and
 27 proportions of INR currencies in which the Contract Price is payable, upon receipt by us of the
 28 Beneficiary's complying demand supported by the Beneficiary's statement, whether in the
 29 demand itself or in a separate signed document accompanying or identifying the demand, stating
 30 that the Applicant is in breach of its obligation(s) under the Contract, without the Beneficiary
 31 needing to prove or to show grounds for its demand or the sum specified therein.

32 This guarantee shall expire on 18.11.2022, and any demand for payment under it must be
 33 received by us at this office indicated above on or before that date.

The beneficiary may, in its own interest, verify the genuineness of the bank guarantee by seeking confirmation
 its issuance from a branch of ICICI Bank other than the issuing branch.

gd. Office: ICICI Bank Ltd., ICICI Bank Tower, Near Chakli Circle, Old Padra Road, Vadodara, Pin code- 390 007, Gujarat
 one : +91-265-6722286, CIN L65190GJ1994PLC021012

Assistant Contracts Engineer
 Q.M.W.S.S. Board
 Chennai-600 002.

Sr.No. 797092



BANK GUARANTEE
ICICI Bank Limited
(Incorporated in India)

BG Number: 0039BGFD006520
Issuing Date: November 18, 2019

37. This guarantee is non-transferable and non-assignable.
38. This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758 except that the supporting statement under Article 15(a) is hereby excluded.
40. The liability of the Guarantor under this Guarantee shall not exceed Rs. 25,94,525/- (Rupees Twenty Five Lakhs Ninety Four Thousand Five Hundred Twenty Five only) (the "Guaranteed Amounts").
42. This Guarantee shall be valid up to 18.11.2022 (the "Expiry Date").
43. Notwithstanding anything to the contrary contained herein, no obligation of the Guarantor to pay any amount under this Guarantee shall arise prior to the fulfillment of the following conditions precedent:
46. (a) Written claim/demand(s) in terms of this Guarantee of an aggregate amount less than or equal to the Guaranteed Amounts is/are made by the Beneficiary hereunder, and
48. (b) Such written claim/demand(s) is/are delivered to the Guarantor on or before the Expiry Date at the ICICI Bank branch located at ICICI Bank Ltd, 119/48, Ramchandra Sabhamandap, Ghole Road, Shivaji Nagar, Pune 411005."

51. Date: 19.11.2019

52. Place: Shivaji Nagar

53. FOR ICICI BANK LTD
54. SIGNATURE: KURJINDER SINGH
55. NAME: S13517
56. SIGNATURE CODE: TRADE DESK MANAGER
SHIVAJINAGAR, PUNE

FOR ICICI BANK LTD
SIGNATURE: Kurjinder Singh
NAME: Kurjinder Singh
SIGNATURE CODE: BHARAT KASAR
K-59.18

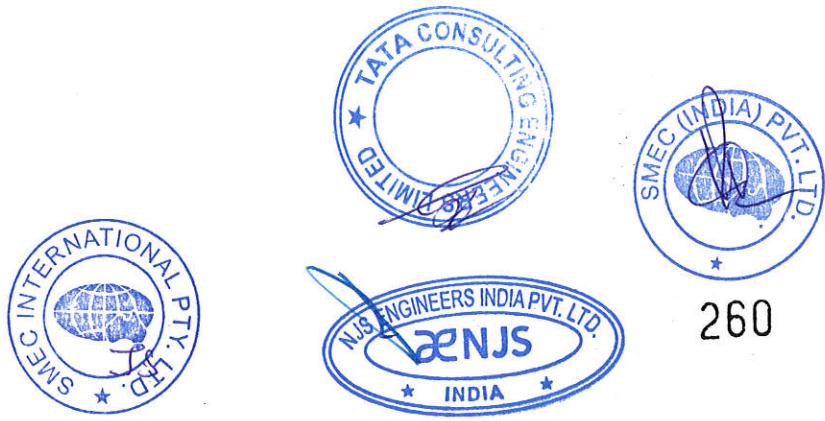
TRADE SERVICE MANAGER
SHIVAJINAGAR, PUNE



The beneficiary may, in its own interest, verify the genuineness of the bank guarantee by seeking confirmation of its issuance from a branch of ICICI Bank other than the issuing branch.

gd. Office: ICICI Bank Ltd., ICICI Bank Tower, Near Chakli Circle, Old Padra Road, Vadodara, Pin code- 390 007, Gujarat.
one : +91-265-6722286, CIN L65190GJ1994PLC021012

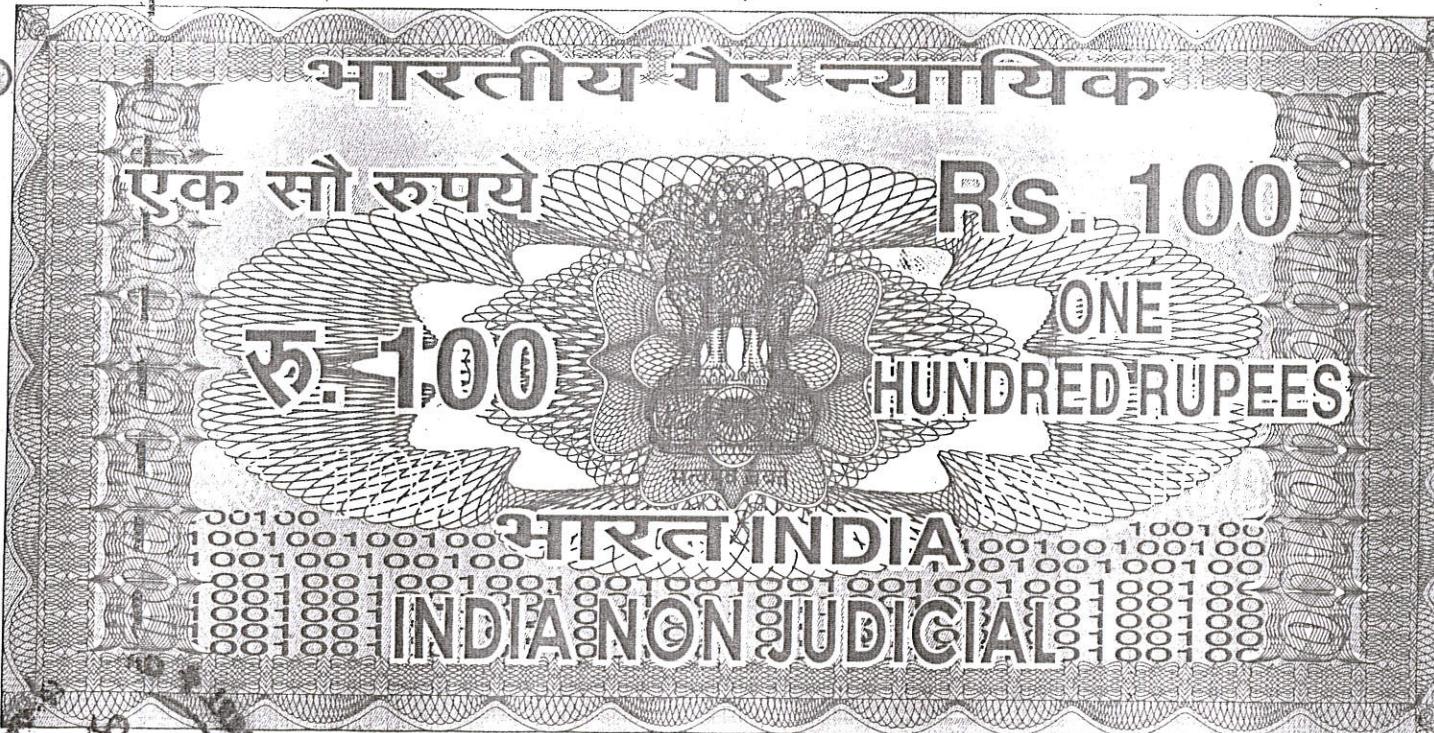
Appendix M: Registered consortium Agreement



260

D
Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai - 600 002.

U1 / 445 12020



தமிழ்நாடு TAMILNADU SNEC INTERNATIONAL
03-01-2020

Don
BZ 130948
I. SARASWATHI
S.V.L. No.28 / B3 / 97
14, Meedapam Street, 1st Fl.
KILPAUK GARDEN,
CHENNAI-10. Cell: 93828980

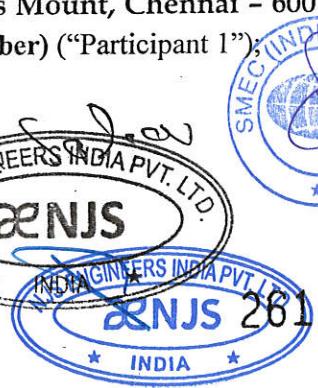
IV Document No.....01.....of 2020 of Book
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~~Registering Officer~~

Consortium Agreement

This Agreement (hereinafter referred to as the "Agreement") for forming an unincorporated Consortium (hereinafter referred to as the "Consortium") is made on this 3rd day of January, 2020 ("Effective Date") by and between:

SMEC International Pty. Ltd. having its registered office at Level 10, 71, Queen Road, Melbourne VIC 3004 and India Project office at: Plot 36/2B, O Square, Mount Poonamalle High Road, St Thomas Mount, Chennai - 600 089, Tamil Nadu (hereinafter referred to as ‘SMEC’) (Lead Member) (“Participant 1”);



2. **Tata Consulting Engineers Limited** having its registered office at Matulya Centre 'A', 1st Floor, 249 Senapati Bapat Marg, Lower Parel (West), Mumbai 400013 (hereinafter referred to as 'TCE') ("Participant 2");
3. **NJS Engineers India Pvt. Ltd.** having its headquarter at 18, Shailesh Society, Karvenagar, Pune-411052 (hereinafter referred to as 'NJSEI') ("Participant 3");
4. **SMEC (India) Private Limited** having its registered office at 507, Bhikaji Cama Place, New Delhi, India and corporate office at 1st Floor, Novus Tower, West Wing, Plot No.18, Sector-18, Gurugram – 122015 (hereinafter referred to as 'SMEC India') ("Participant 4").

Participant 1, Participant 2, Participant 3 and Participant 4 are hereinafter collectively referred to as 'Participants' and individually referred to as 'Participant'.

1. Nature of Engagement

- 1.1. The Consortium is created to enter into a contract ("Main Contract") with Chennai Metropolitan Water Supply and Sewerage Board (CMWSSB) (hereinafter referred to as "the Client") on the basis of LOA issued by the Client vide Ltr No. CMWSSB/CNT/CON/DESAL/ICB/GOI/016/2018-19 dated 06.11.2019 for the provision of "Consultancy services for Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South Of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all Allied Works" (hereinafter referred to as "the Project").
- 1.2. The Participants agree that their joint purposes for entering into this Agreement are to:
 - a) enter into the Contract with the Client;
 - b) undertake to be jointly and severally responsible for all the obligations and liabilities relating to this consultancy services and to carry out the Services in relation to the Project set out in the Contract.

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Document No. 01.....of Book
contains 21 Sheets 2.....Sheet
Registering Officer

Each Participant has represented itself and warrants that:

- a) it will co-operate with the other Participant in the performance of the Services in accordance with this Agreement and the purposes set out in clause 1.2;
- b) it will carry out the Services in the spirit of mutual trust;
- c) it will carry out all of its obligations expressed in this Agreement efficiently and promptly;
- d) it will provide skilled and competent professional in accordance with the Staffing Schedule as already agreed in Appendix-C of Main Contract ;
- e) it will perform the Services to the standard of skill, care and diligence expected of a skilled and competent professional practising in the particular field relevant to the Services;
- f) it has the power to execute, deliver and perform its obligations under this Agreement and all necessary corporate and other action has been taken to authorise that execution, delivery and performance; and

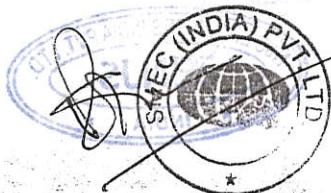
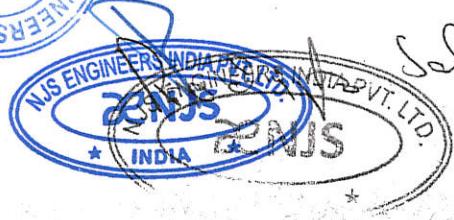
Consortium Agreement



262



Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002
Page 2



g) it is duly incorporated and validly existing under the laws in force in its respective jurisdiction of incorporation.

- 1.4. a) Each Participant to the Consortium Agreement will contribute funding (working capital and capital contributions) amounting to **Rs. Four Lakh only (Rs. 4,00,000/-)** in the proportions (%) of Contribution referred in the table below.

Name	Role (Lead Member / Member / Associate)	% of Funding Contribution for Each Participant	Amount of Funding Contribution
SMEC International Pty Ltd	Lead Member of Consortium	39.7	1,58,800/-
Tata Consulting Engineers Limited	Consortium Member	24.2	96,800/-
NJS Engineers India Pvt. Ltd.	Consortium Member	21.3	85,200/-
SMEC India	Consortium Member	14.8	59,200/-
Total			4,00,000/-

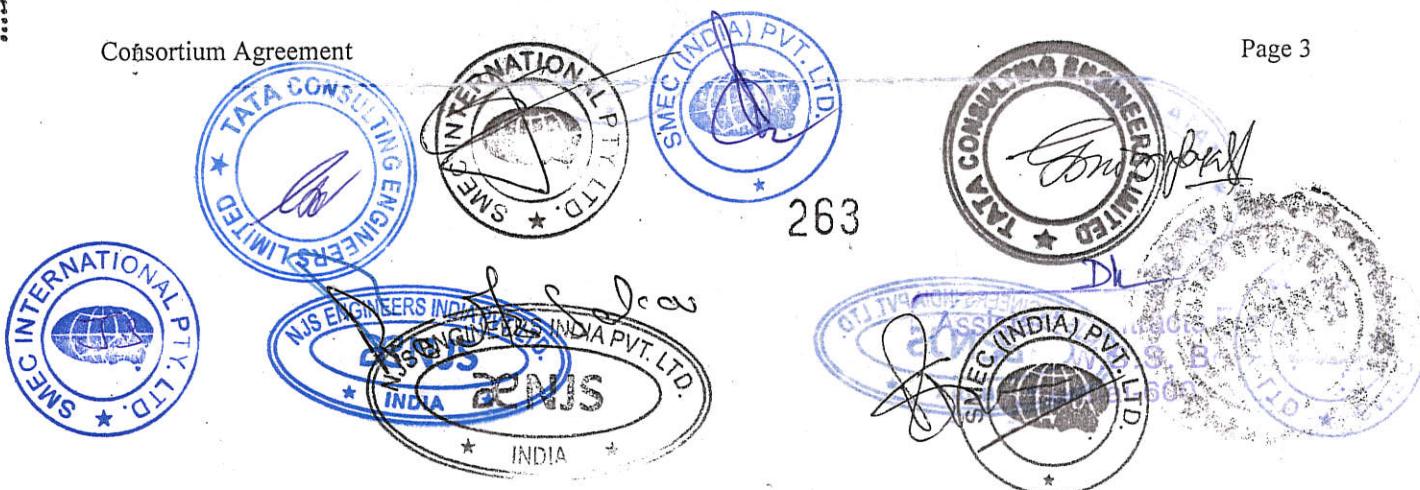
b) All the Parties to this Consortium Agreement hereby agree that, this Consortium Agreement will be registered with concerned Registrar and the Registration Fee will be paid on amount as per the capital contribution mentioned above.

- 1.5. Each Participant of the consortium is assigned the roles & responsibilities for the project as mentioned below:

Name	Role (Lead Member / Member / Associate)	Responsibilities as per Scope	% of Share for Each Participant
SMEC International Pty Ltd	Lead Member of Consortium	Overall management and delivery of the Project objectives. Bringing in necessary International and national resources for the project. Client and Consortium coordination for effective communication and implementation of the project scope.	39.7
Tata Consulting Engineers	Consortium Member	As a Technical partner, Assisting the Lead Member in management of the project including client coordination, and	24.2

Consortium Agreement

Page 3



Limited		delivery of Project objectives. Bringing in necessary International and national resources for the project.	
NJS Engineers India Pvt. Ltd.	Consortium Member	As a Technical partner, Assisting the Lead Member in management of the project including client coordination, and delivery of Project objectives. Bringing in necessary International and national resources for the project.	21.3
SMEC India	Consortium Member	As a Technical partner, Assisting the Lead Member in management of the project including client coordination, and delivery of Project objectives. Bringing in necessary International and national resources for the project.	14.8

- a) The detailed Scope of work is provided in the Main Contract under Appendix-A. The Parties will form an integrated team comprising their respective personnel, the composition of which is provided in Appendix-C of Main Contract as agreed by respective participants and will perform the Services under the Main Contract through the integrated team;

- 1.6. The Participants agree that this Agreement and the Contract with the Client will be executed and performed in the name of this unincorporated Consortium between the Participants trading as SMEC, TCE, NJSEI, SMEC India 'Consortium' to work together to contribute to (i) enter into the Contract with the Client and (ii) render the Services with joint and several responsibility in accordance with the Main Contract for the Project to be implemented under the JICA ODA Loan.
- 1.7. No Participant shall have authority to bind or to make any commitment on behalf of the Consortium or on behalf of any other Participant unless such authority is provided in writing.
- 1.8. The Services shall be carried out by the Participants in accordance with the terms of the Main Contract and this Agreement. In the event of any inconsistency between the terms of the Main Contract and this Agreement regarding the performance of the Services, the Main Contract shall prevail to the extent of any inconsistency.
- 1.9. The Participants confirm that they are exclusively associated with the Consortium in connection with the Services as detailed in the Contract and to the best of their knowledge have no identified conflicts of interest in relation to the Client, the Services, and amongst themselves.
- 1.10. Each Party represents, warrants and undertakes to the other Party that;

Consortium Agreement



Page 4

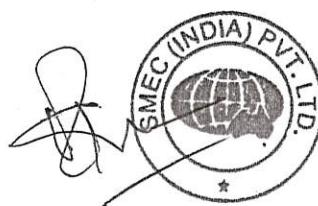
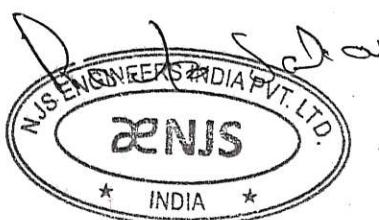
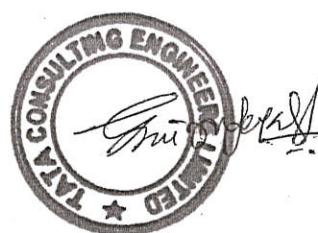
- a. It is a legal entity duly incorporated and registered, validly existing and in good standing in the jurisdiction of its incorporation and registration.
- b. It has full corporate power and authority to enter into this Agreement and to perform its obligations hereunder.
- c. The execution of this Agreement has been duly authorised by all necessary and appropriate actions, which will constitute valid and legally enforceable and binding terms and conditions hereof.

1.11. This Agreement shall be governed and construed in accordance with the laws of India.

2. Term

This agreement shall end upon the earliest occurrence of any of the following:

- a) the Client's written confirmation that the Services have been completed in accordance with the Main Contract; or
- b) termination of the Main Contract, and post such completion of services or termination of contract;
- c) all accounts are settled between the Consortium and the Client and the Consortium Partners and third parties of the Consortium relating to the Services; and
- d) all accounts are settled between the Participants relating to the Consortium or the Services; and
- e) any security held by the Client has been released.



Consortium Agreement

Page 5

265

Document No..... of of Book
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Registering Officer



3. Obligations of the Participants

Each Participant must

- a) perform the obligations and be responsible for the completion of all parts of the Services as per Main Contract, in accordance with the resources and personnel agreed to be deployed by each participant and as per the program of the Contract as set out in Appendix-C of Main Contract ;
 - b) ensure that sufficient skilled resources are available and utilised to perform the Services for which it is responsible.

4. Ownership and Use of Information

Unless specified in the Contract, any existing Intellectual Property Rights incorporated into the Services remain the property of the Participant who owns the existing Intellectual Property Rights. The Participant owning the existing Intellectual Property Rights grants a royalty free, irrevocable, non-exclusive licence to the other Participants to use the existing Intellectual Property Rights for the purpose of providing the Services for the Project only.

5. Confidentiality

Unless it is in accordance with this Agreement or the Participant provides its written consent, each Participant must not permit any of its officers, employees, agents, contractors, or related companies to:

- (a) use, exploit or disclose to any person any information disclosed to it by the other Participant under this Agreement; or
 - (b) reverse engineer, disassemble or decompile any prototypes, software or other tangible objects which embody the information disclosed to it by the other Participant under this Agreement.

For the purpose of this document “Confidential Information” means all information that is referred to or designated as confidential, at any time, which may be disclosed only in tangible format by word, in writing or by any other means that is exchanged as a result of the performance of the Project. When Confidential Information is disclosed orally, visually or in any other intangible form, such information shall be identified as confidential at the time of disclosure only if, subsequently summarized and communicated by the disclosing Participant to the receiving Participant in writing within Seven (7) calendar days from the initial disclosure, referring the date of disclosure. Confidential information shall be exchanged between the Participants only directly with each other never indirectly through any other Participant, who is not a Participant in this Agreement.

- (c) The Parties hereto promise and agree to respect the intellectual property rights and confidentiality of all information, maps, designs, data and other documents as may be made available to the Parties and shared between them, and to use said information solely and exclusively for performance of the Project and to refrain from and prevent the dissemination or distribution of such information to third Party without the prior written consent of the competent party throughout the term of this Agreement (including any renewal thereof).



- (d) This confidentiality undertaking does not apply to any:
- information which has been published other than through a breach of this undertaking;
 - information lawfully in the possession of the recipient Party before its disclosure in the Project took place;
 - information obtained from a third party who is/was free to disclose it;
 - information independently developed by a Participant;
 - information which a party is requested to disclose and if it did not could be required by law (including a regulatory body) to disclose.

The Participants shall seek to resolve any dispute arising out of or in connection with this Agreement or its interpretation amicably by mutual consultation within 15 calendar days since the first written intimation of such dispute from the affected Participant to the other Participant/s.

Any dispute between the Participant/s as to matters arising pursuant to this Agreement that cannot be settled amicably shall be submitted by any participant for arbitration under the Rules of the Indian Arbitration and Conciliation Act, 1996; as amended and restated from time to time.

6. Liability

- 6.1. Each Participant indemnifies the other Participants against loss, liability or expense (on a solicitor and own client or full indemnity basis, whichever is the greater) to the extent it arises from its Gross Negligence, failure, breach or default in the performance of its obligations under this agreement and Contract giving rise to damages. In this clause, "Gross Negligence" means an act or omission done or omitted to be done with reckless disregard for the consequences of the act or omission but does not include any error of judgment or mistake made in good faith.

6.2. The Participants shall share in the liabilities of the Consortium as per the share in scope / responsibilities set out in clause 1.4, despite any other obligation undertaken in the Main Contract;

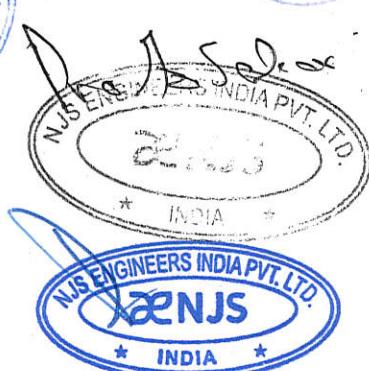
6.3. Without prejudice to what stated in clause 6.2 each Participant is entirely responsible as per Clause 1.4 vis-à-vis each of the other Participants for the performance of the Contract in respect of that Participant's Scope of Works (including remedying of any defects herein) and for any and all liabilities arising in connection therewith and

- 6.4. Unless otherwise expressly stipulated by this agreement, in no event shall either participant be liable to the other for consequential, incidental, indirect, or special damages of any kind whatsoever, whether in an action in contract or in tort, including negligence, or otherwise, arising from the purposes for which this agreement was entered into.

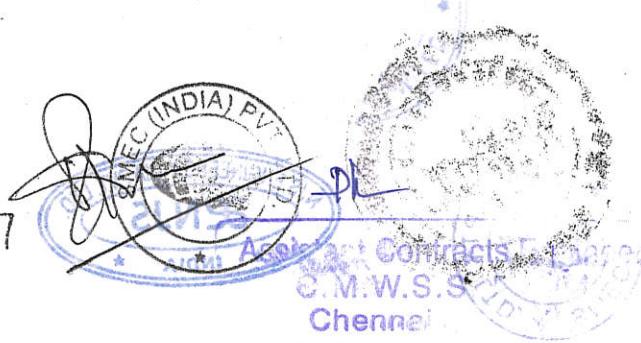
Consortium Agreement



Page 7



267



6.5. Contract Stage Liability

6.5.1 Regarding the Client

The Participants shall adhere to the Contractual term of the client in accordance to the Main Contract.

6.5.2 Between the Parties

- a. Without prejudice to what stated in clause 6.5.1 and 6.5.2 herein, each Participant is entirely responsible vis-à-vis each of the other Participants for the performance of the Contract in respect of that Participant's Scope of Works (including remedying of any defects herein) and for any and all liabilities arising in connection therewith, except and to the extent expressly otherwise provided in this Agreement.
- b. In case the non-accomplishment, error, or omission is clearly attributable to a Participant (the defaulting Participant), the defaulting participant shall be obliged to remedy and any and all consequences derived from such non accomplishment, error, omission shall be borne by the defaulting Participant committing or contributing to it.
- c. In case the non-accomplishment, error, or omission which cannot be clearly attributed to any particular Participant, or that is attributable to a third party, not a Party of the Consortium, and who is not acting for any Participant (e.g subcontractor), the Participants shall use its best efforts to jointly remedy such default and shall bear the costs, responsibilities and liabilities derived from the non-accomplishment, error, or omission pro rata to their participation percentages until it is determined , according to clause waiver herein , which of the Participant (and to what extent) is responsible for the payment of the consequences and damages derived from.
- d. Above liabilities clarified under this Clause 6.5.2 shall survive the termination of this Agreement.

7. Insurance

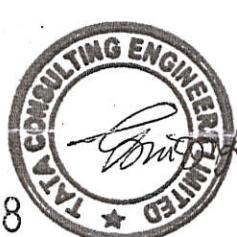
Following Insurances are to be taken and maintained throughout the Contract Period, by each Participant to cover the Risks mentioned in the Main Contract at their own cost. However, the Lead Member should be responsible for ensuring the same. The risks and the coverage as per the Main Contract are:

- a) Third Party motor vehicle liability insurance in respect of motor vehicles operated as required under Motor Vehicles Act, 1988 in India by the Consultant or its Experts or any Sub-consultants or their Experts, for the period of Consultancy, as required under Indian Motor Vehicles Act;
- b) professional liability insurance, with a minimum coverage of equal to total contract value for this consultancy and will be shared in proportions set out in Clause 1.4;
- c) employer's liability and worker's compensation insurance in respect of the Experts of the Consultant and of any Sub-consultants, in accordance with the relevant provisions of the Applicable Law, as well as, with respect to such Experts, any such life, health, accident, travel or other insurance as may be appropriate; and
- d) insurance against loss of or damage to (i) equipment purchased in whole or in part with funds provided under this Contract, and (ii) the Consultant's property used in the performance of the Services.

Consortium Agreement



268



Page 8



7.2. The provisions of Clause 7.1 is valid till the expiration or termination of this Agreement.

8. Exclusivity

Throughout the duration of this Agreement, the Participants shall not engage in discussions or negotiations with, or provide any information to third parties, or submit directly or indirectly any tender for the project where Participants have explicitly agreed to work together upon, including services and/or activities related to their respective scope of works, individually or in association with any third parties other than the signatories to this Agreement, without the prior written approval of the other Participants.

9. Communications

Communication between the Parties shall be carried out in English and by any means as may allow for the proof of date of issue and receipt and of the contents thereof and shall be made to the following contact persons and addresses:

For: SMEC International Pty Ltd

Contact: Dr.Janardhan Sundaram

Registerd Address: Level 10, 71, Queen Road Melbourne VIC 3004, Australia
And India communication office at 1st Floor, Novus Tower, West Wing, Plot Number -18,
Sector – 18, Gurgaon – 122015, Haryana
E-mail: Janardhan.Sundaram@smecl.com

For TATA Consulting Engineers Limited

Contact: Mr.Sachin Mishra, Head Legal & Company Secretary

Address: Unit no. NB 1502 & SB 1501, 15th Floor, Empire Tower, Opposite Reliable
Technology Park, Cloud City Campus, Airoli, Navi Mumbai 400 708.
Telephone: +91 22 6114 8181 ; Fax: +91 22 6114 8282
E-mail: smishra@tce.co.in

For NJS Engineers India Pvt. Ltd.

Contact: Mr Pradipto Sarkar, Director

Address: 18, Shailesh Society, Karvenagar, Pune-411052

E-Mail: psarkar@njsei.com

For SMEC (India) Private Limited

Contact: Mr. Mallikarjunagowda Patil

Address: 1st Floor, Novus Tower, West Wing,
Plot No. 18, Sector-18, Gurugram – 122015

The Project Manager / Team Leader (Lead Member) is fully responsible for attending all the meeting, gathering instructions from the client and circulate the same to the other Consortium members. All the Consortium Members, hereby authorise **Mr.S.Srinivasa Rao** (Zonal Operation Manager, SMEC India Pvt. Ltd.) as the project co-ordinator for this project. He will be assisting the Project Manager / Team Leader in all the above aspects for co-ordinating the project between Client and other Consortium members.

10 Waiver

Waiver of any provision of this Agreement, or of any right or obligation of the Party within the same, shall only be effective if agreed in writing. Such waiver shall not be deemed to be a waiver of any other provision herein, nor shall waiver of any breach of this Agreement be construed as a continuing waiver of other breaches of the same or other provisions of this Agreement.

Any delay or lack of exercise by any of the Parties of the rights or obligations granted in this Consortium Agreement shall not be understood as a waiver to the exercise of the same.

11 Severability

If any part of any provision of this Agreement is found by an arbitrator or other competent authority to be void or unenforceable, such part of the provision shall be deemed to be deleted from this Agreement and the remainder of such provision and the remaining provisions of this Agreement shall continue in full force and effect.

12 No Partnership Or Agency

Nothing in this Agreement is intended to, or shall be deemed to, establish any partnership between any of the parties, constitute any party the agent of another party, nor authorise any party to make or enter into any commitments for or on behalf of any other Party.

13 Corruption and Fraud

In the performance of obligations under this Agreement, the Parties and their agents and employees shall comply with all applicable laws, rules, regulations and orders of any applicable jurisdiction, including the OECD Convention on Combating Bribery of Foreign Public Officials in International Business Transaction and the United Nations Convention against Corruption (UNCAC). The Parties hereby represent, warrant, and covenant that they will neither receive nor offer, pay or promise to pay either directly or indirectly, anything of value to a public official (as defined below) or any other third party, in connection with any business opportunities which are the subject of this Agreement. Furthermore, the Parties shall notify immediately each other in writing with full particulars in the event that they receive a request from any public official or any other third party requesting illicit payments.

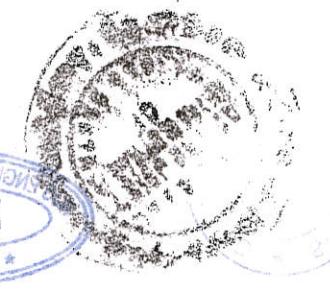
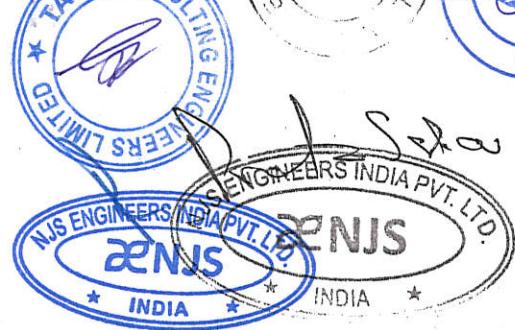
A public official is:

- a. Any official or employee of any government agency or government-owned or controlled enterprise.
- b. Any person performing a public function.
- c. Any official or employee of a public international organization.
- d. Any candidate for political office.
- e. Any political party or an official of a political party.

Consortium Agreement

Page 10

270



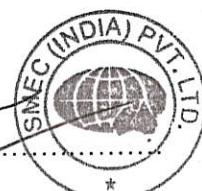
In WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed on this
_____3rd day of January 2020 at Chennai.

EXECUTED as an agreement



1. SMEC International Pty. Ltd.
Lead Member of the Consortium
Name: Dr.Janardhan Sundaram
Title: Managing Director-India
Authorized Signatory

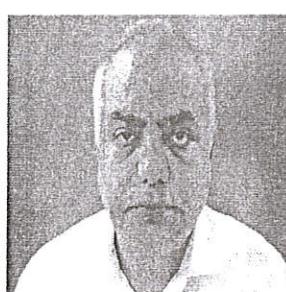
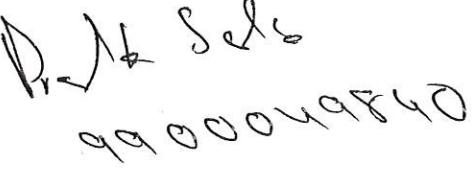
2. Tata Consulting Engineers Limited
As Consortium Member
Name: Mr.G.N.Virupaksha
Title: Senior General Manager
Authorized Signatory



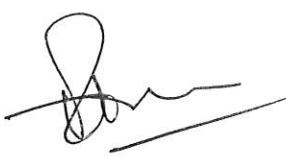
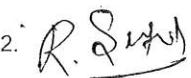
3. NJS Engineers India Pvt. Ltd.
As Consortium Member
Name: Mr.Pradipto Sarkar
Title: Director
Authorized Signatory

4. SMEC India Pvt. Ltd.
As Consortium Member
Name: Mr. Pushpendra Kumar Sharma
Title: Company Secretary
Authorized Signatory



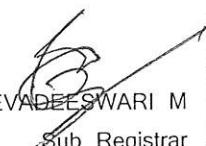
<p>Presented in the office of the Sub Registrar of Chennai South Joint II and fee of ₹ 1,24,22,785/- paid at 01:11 PM on the 03/01/2020 by</p>			
Left Thumb			 9871197472 Additions as per recitals of document
Execution admitted by			
Left Thumb			 8527911998 Additions as per recitals of document
Claim admitted by			
Left Thumb			 9341602291 Additions as per recitals of document
Claim admitted by			
Left Thumb			 Additions as per recitals of document



Claim admitted by Left Thumb	 	
		Additions as per recitals of document
Identified By		
1. 	Mr. A RENU KUMAR Son of AREATI SUBRAMANYAM 12-732, Bugga Street, Renigunta Chittoor, AR, Andhra Pradesh, India, 517520.	
2. 	Mr. SENTHIL R Son of RAMESH 58G, 3 Car nagar, Subramania Street, Perambur, chennai -600011, Chennai, Tamil Nadu, India, 600011.	

3rd day of January 2020

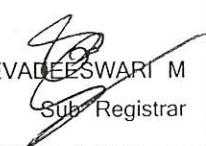



JALEVADEESWARI M
Sub Registrar
Chennai South Joint II

JOINT-II SUB REGISTRAR
SAIDAPET, CHENNAI - 600 015

Registered as Number R/Chennai South Joint II/Book-4/1/2020.

Date: 03/01/2020
Chennai South Joint II


JALEVADEESWARI M
Sub Registrar

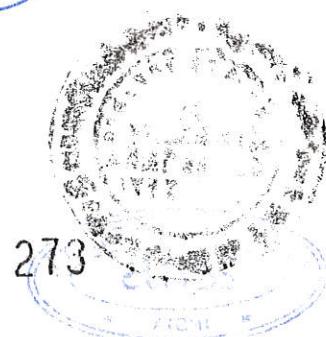
JOINT-II SUB REGISTRAR
SAIDAPET, CHENNAI - 600 015



10 2020

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CHENNAI METROPOLITAN WATER SUPPLY AND SEWERAGE BOARD

MANAGING DIRECTOR

Lr. No. CMWSSB/ CNT/CON/DESAL/ICB/Gol/016/2018-19

dt.05.11.2019

To

M/s.SMEC International Pty Limited, Australia in consortium with M/s.NJS Engineers India Pvt Ltd, Pune, M/s.Tata Consulting Engineers Ltd, Navi Mumbai, M/s.SMEC India Pvt Ltd, Haryana.
1st Floor, Novus Tower, West Wing,
Plot Number – 18, Sector-18,
Gurgaon – 122015,
Haryana.

Sir,

Sub: CMWSSB - Contracts - Consultancy for Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its product Water Conveyance Pipeline from the Plant and upto Porur and all allied works – Consultancy proposal accepted – Letter of Acceptance issued - Reg.

Ref: 1. Proposal No.CNT/CON/DESAL/ICB/Gol/016/2018-19
2.Your proposal dt.11.03.2019.

-oOo-

1. With reference to your offer for the above consultancy services under proposal No.CNT/CON/DESAL/ICB/Gol/016/2018-19, received on 11.03.2019 and all subsequent correspondences made between you and CMWSS Board, the competent authority is pleased to accept your offer for the above consultancy services at the value of **INR.57,55,55,630.00 (Rupees Fifty Seven Crore Fifty Five Lakh Fifty Five Thousand Six Hundred Thirty Only)** and in USD, \$9,411,963 (Nine Million Four Hundred Eleven Thousand Nine hundred Sixty Three Dollars Only) totaling to **INR 124,22,37,929.00**.

2. Payments for this Consultancy will be made as per the clause 6 in Payments to the Consultant of General Conditions of Contract.

As per the Clause 2.1 of Special Conditions of Contract of Request For Proposal, you are requested to furnish the Performance Security for **INR.1,24,23,000.00 (Rupees One Crore Twenty Four Lakh Twenty Three Thousand only)** for this consultancy services in the form of irrevocable Contract Performance Bank Guarantee from any of the Scheduled/Nationalized Bank and execute the agreement within 15 days from the date

Document No.....01.....of.....2020.....of Book
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274

Assistant Contracts Engineer



G.M.W.S.S. Board
Chennai-600 002:

of receipt of Letter of Acceptance and the Performance Security should be valid upto one year beyond the date of completion of consultancy contract period.

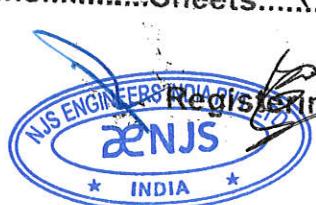
4. The Professional personnel for the man months as per the details specified in your original proposal should be furnished before signing the agreement. At the end of each month, a certificate for the man months put in will have to be furnished by you.
5. The consultancy work should be completed within **89 (Eighty Nine) months**. For taking up the work and for further action, you are requested to contact Superintending Engineer (Desal).
6. Pending execution of the Contract Agreement, you are requested to plan immediate advance action to mobilize the project team and to commence the works immediately.
7. You may contact the Superintending Engineer (Contract & Monitoring) for clarification, if any, in this matter.
8. Please acknowledge this receipt of letter of acceptance and proceed accordingly.



MANAGING DIRECTOR



Document No.....01.....of.....2020
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Assistant Contracts Engineer
W.G.S. Board
Chennai-600 002.
275



ਪੜ੍ਹਿਧਨ ਪ੍ਰਮਾਣਪੱਤਰ CERTIFICATE OF REGISTRATION

CERTIFICATE OF REGISTRATION
विदेशी भारतीय नागरिक
OVERSEAS CITIZEN OF INDIA

यह प्रमाणित किया जाता है कि जिस व्यक्तित की जानकारी इस प्रमाणपत्र में दी गई है उसे नागरिकता अधिनियम 1955 की धारा 7 के अधीन दिवेशी भारतीय नागरिक के रूप में मंजूरीकृत किया गया है।

This is to certify that the person whose particulars are given in this Certificate has been registered as an Overseas Citizen of India under the provisions of Section 7A of the Citizenship Act, 1955.




K.G. KESAVAM
VICE CONSUL
Consulate General of
Signature & Subbox stamp
Signature & Subbox stamp

पंजीयन प्रमाणपत्र CERTIFICATE OF REGISTRATION	
विदेशी ग्राहक नागरिक Overseas Citizen of India	
पहला / Surname	स्थ. / No. A 264449
SUNDARAM	
दूसरा जो नाम / Given Name(s)	
JANARDHAN HARISH	
राष्ट्रीयता / Nationality	
GBR	मरि / Sex
उत्तराधारा / Place of Birth	
KALYAN (MH) - INDIA	जन्मतिथि / Date of Birth
	05/04/1970
उत्तराधारा / Occupation	
CHARTERED ENGINEER	
उत्तराधारा का स्थान / Place of Issue	जारी करने वाली संस्था / Date of issue
DUBAI	27/05/2008

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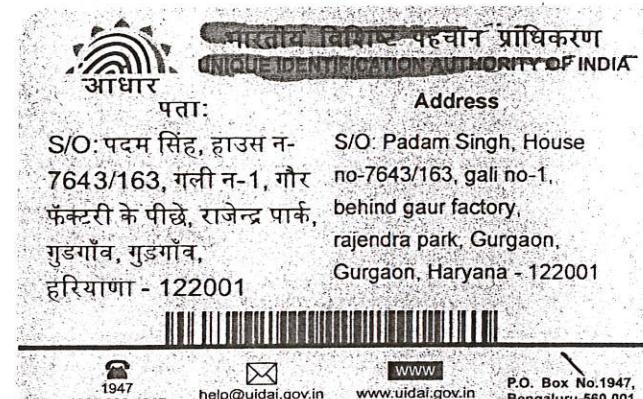
A circular blue ink stamp. The outer ring contains the text "NJS ENGINEERS INDIA LTD." at the top and "INDIA" at the bottom, separated by a small star. In the center is a stylized logo consisting of three interlocking arches forming a triangle, with the letters "NJS" written across them. A handwritten signature is overlaid on the stamp.



Sistant Contracts Engineer
C.M.W.S.S. Board,
Chennai-600 002.



आधार - आम आदमी का अधिकार

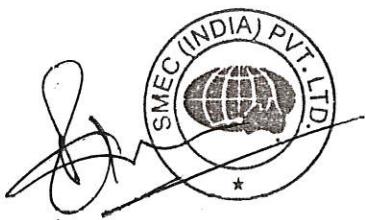


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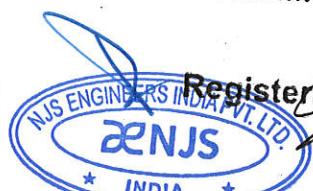
help@uidai.gov.in

www.uidai.gov.in

P.O. Box No.1947,
Bengaluru-560 001



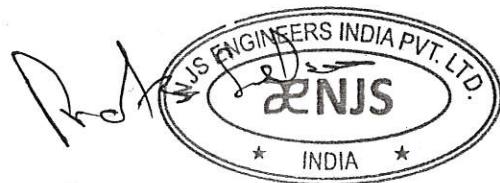
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Registering Officer

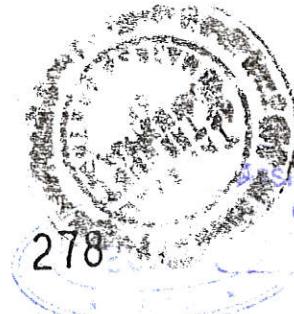
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Assistant Contracts Engineer
C. M. W. S. S. Board
Chennai-600 002.



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Registering Officer



Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002



இந்திய தனிப்பட்ட அடையாள ஆணைய அமைப்பு

இந்திய அரசாங்கம்
Unique Identification Authority of India
Government of India

பதிபு அடையாளம் / Enrollment No.: 1111/63731/04060

To
ஸெந்தில் ர
Senthil R
S/O: Ramesh
58 G 3 CAR NAGAR
SUBRAMANIA STREET
Perambur
Perambur
Chennai Chennai
Tamil Nadu 600011
9486063978

10/11/2013
70668102



உங்கள் ஆதார் எண் / Your Aadhaar No. :

7892 8656 4769

ஆதார் - சாதாரண மனிதனின் அதிகாரம்



இந்திய அரசாங்கம்
Government of India

ஸெந்தில் ர
Senthil R
பிறந்த நாள் / DOB : 23/03/1980
ஆண்பால் / Male

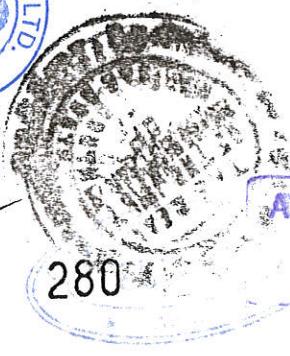


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R. Senthil

R. Senthil



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Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.

280



Member of the Surbana Jurong Group

Employee Copy - 1807-POA234

SMEC INTERNATIONAL PTY LIMITED
ACN 065 440 619

POWER OF ATTORNEY

SMEC INTERNATIONAL PTY LIMITED, a duly established company whose principal business address is Level 10, 71 Queens Road, Melbourne Victoria 3004, Australia, hereby authorises:

Full Name: Dr. Janardhan Harish Sundaram
Date of Birth: 05th April 1970
Nationality: British
Occupation: Managing Director- SMEC (India) Pvt Ltd
Passport No: GBR 519977600

As special attorney, valid for India & Bhutan empowering Dr. Janardhan Sundaram:

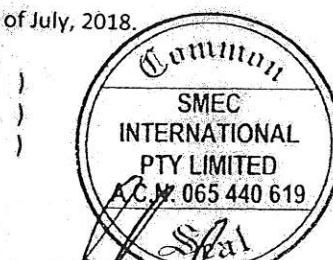
- To represent SMEC International Pty. Ltd. before the Central /State/ Local Government Authorities of India and the Royal Government of Bhutan, for any purpose connected with or relating to business activities of the Company;
- To sign and submit on behalf of SMEC International Pty Ltd. the Technical and Financial Proposals, Expressions of interest, for the Government of India and the Royal Government of Bhutan, any State/ Local Government Authority of India or Bhutan and Private Clients in both countries and also sign MOU'S, association/JV agreements with other consultants related to business activities of SMEC in India & Bhutan.
- To enter into business negotiations, execute and approve contracts subject to the Instrument of Delegation, perform all obligations and receive and accept all benefits on behalf of the Company.
- To open/ close Bank Accounts and approve signatories or any other matter relating to the Account and approve signatories or any other matter relating to the Account with any Bank of India or Bhutan, on behalf of SMEC International Pty Limited.

With the present Power of Attorney, the undersigned considers valid and absolutely legal all acts made by the herein-mentioned attorney in connection with the above – defined Power of Attorney. The present Power of Attorney will remain valid until revoked.

Executed at Sydney, New South Wales this 23rd day of July, 2018

The COMMON SEAL of
SMEC INTERNATIONAL PTY LIMITED
was hereunto affixed in the presence of:

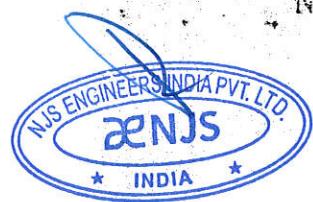
Philip Charles Wilcox
Company Secretary



Angus James Macpherson
Director



TIMOTHY DONALD SOMERVILLE
Notary Public



282

SMEC Holdings Pty Ltd ABN 84 057 274 049
SMEC Services Pty Ltd ABN 79 066 504 792
SMEC Australia Pty Ltd ABN 47 065 475 149
SMEC International Pty Ltd ABN 32 065 440 619
Assistant Contracts Engineer
G.M.W.S.S. Board
Chennai-600 002.



APOSTILLE

(Convention de La Haye du 5 octobre 1961)

1. Country Australia

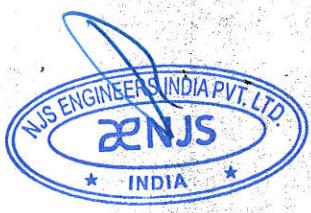
This public document
2. has been signed by Timothy Donald Somerville
3. acting in the capacity of Notary Public
4. bears the seal/stamp of Timothy Donald Somerville, Notary
 Public, Sydney

Certified
5. at Canberra
6. the 2nd day of August, 2018
7. by Kim Pepper
8. No. CHCH-TH-5638
9. Seal/Stamp

10. Signature



This Apostille only certifies the authenticity of the signature (where applicable) and the capacity of the person who has signed the public document, and, where appropriate, the identity of the seal or stamp which the public document bears. This Apostille does not certify the content of the document for which it was issued. This Apostille can be verified at <https://orao.dfat.gov.au/pages/verifyapostille.aspx>





LOA/TCE/DOM/IBU/1073/2019/CMWSSB

To:

**The Superintending Engineer (Contracts & Monitoring),
Chennai Metropolitan Water Supply & Sewerage Board,
No. 1, Pumping Station Road,
Chintadripet,
Chennai – 600 002**

Date: 21.02.2019

Sub: Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works".

Ref: CONTRACT NO: CNT/ CON/DESAL/ICB/Gol/ 016/2018-19;
LOAN AGREEMENT No. ID-P267
JICA FUNDED PROJECT

Dear Sir,

I hereby authorize our Mr. G.N. Virupaksha, Senior General Manager, whose signature is appended below, to sign the tender / RFP, provide information / responses to the Authority, and sign & execute the contract consequent to the acceptance of our proposal for the subject work on behalf of M/s. Tata Consulting Engineers Limited. A copy of my General Power of Attorney is enclosed herewith.

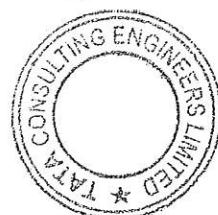
Specimen signature of Mr. G. N. Virupaksha:

Thanking you,

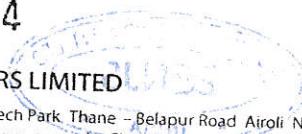
Very truly yours,
For Tata Consulting Engineers Limited

Amit Sharma
Managing Director

Enclosure: Power of Attorney



284



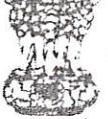
The Karot Co-operative Bank Ltd.
Ghatkopar Branch, Lantony Marg No. 30/
Wadi, Ghatkopar (W), Mumbai-400 086

D.S. STAMP/C.R. 1061/4405 T.985-82

भारत 26605

196018

SPECIAL ADHESIVE STAMPS
FEB 05 2013



INDIA

STAMP DUTY MAHARASHTRA

100 200 300 400 500 600 700 800 900 1000 13:56

Rs.0000200/- PB5500

GENERAL POWER OF ATTORNEY

TO ALL TO WHOM THESE PRESENTS SHALL COME TATA CONSULTING ENGINEERS LIMITED, having its registered office at Matulya Centre "A", 1 floor, 249 Senapati Bapat Marg, Lower Parel (West), Mumbai 400 013 (hereinafter called the "Company") send greetings:

WHEREAS the Company has been incorporated under the Companies Act 1956 as a Company limited by shares.

AND WHEREAS the Attorney hereinafter named is an Officer of the Company and for the purpose of enabling him to discharge his duties and to act for and on behalf of the Company the Board of Directors of the Company have by a Resolution of the Board duly resolved that the Company do give the attorney hereinafter named the powers and authorities hereinafter contained and for that purpose to execute this General Power of Attorney and in implementation of the said resolution, the Company is desirous of appointing MR AMIT SHARMA (hereinafter called the "Attorney") as its Attorney to do and perform the following acts and things :

NOW THESE PRESENTS WITNESS that the Company hereby appoints the said MR AMIT SHARMA the Attorney of the Company in the name and on behalf of the Company to do and perform the following acts and things:

1. To sign all correspondence, contracts, tenders, agreements and documents that may be necessary in the ordinary course of business of the Company.
2. To ask, demand, sue for and recover, receive payment of and give good and valid receipts, releases, discharges and indemnities for all the moneys, securities for moneys, profits, debts, goods, chattels, stocks, shares and other personal effects now belonging and hereafter to belong to the Company, whether solely or jointly with any other person or persons.
3. To commence, carry on or defend, appear or appeal in all suits, departmental appeals, appeals before any Courts of Law, appellate

Ms. ROSHAN M. MASTER

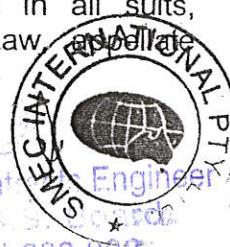
NOTARY, GREATER BOMBAY
2403, ORCHID TOWER A
ELLASIS ROAD,
MUMBAI - 400 008.

NJS ENGINEERS INDIA PVT. LTD.
DNJS
INDIA

Assistant Cont.

285 M.W.S. S. 002

Chennai-600 002



024

bodies, tribunals, or before arbitrator and other legal proceedings and demands touching any matter or thing in which the Company may be in anyway concerned whether solely or jointly with any other person or persons.

4. To sign and execute on behalf of the Company documents such as :
 - (a) Indemnity bonds for clearance of goods in the absence of relevant documents from railway authorities, steam ship companies, air services and/or road transport companies.
 - (b) Forms necessary for lodging and settling claims in connection with licenses, insurance, duties, etc.
 - (c) Government, railway and other tenders and such other instruments and contracts as may be necessary for the sale in India or elsewhere of goods and services manufactured and/or distributed and/or supplied by the Company.
 - (d) To apply for registration, recognition, license and authorization under the Excise Duty, Service-tax and Sales tax of any State Government and/or of the Central Government.
 - (e) To file affidavits with Government and other authorities in connection with business of the Company.
5. To apply for and on behalf of the Company for new telephone, internet and telex connections and to obtain and register abbreviated telegraphic addresses and to otherwise deal with the Posts and Telegraphs Department and other relevant Government agencies.
6. To sign, seal, swear, affirm, declare, execute lease, pleadings, affidavits, declarations, petitions, returns as shall be requisite or as our said Attorney may deem necessary proper or expedient for or in relation to all or any of the purposes or matters aforesaid relating to the business of the Company.
7. To sign bills of lading, policies of insurance and documents of title to goods and any documents required by the customs office, excise department, railways, air lines and other carriers in relation to the goods imported and exported on behalf of the Company.
8. To engage remunerate and dismiss on behalf of the Company within approved budgets and policies servants and employees whether manual, clerical, technical, skilled or unskilled or otherwise and to engage experts or technical or professional advisers on such terms as may be considered necessary or expedient.
9. To appear for and on behalf of the company and to represent them in respect of all matters arising in the course of suits filed by the Company against such of its employees who commit breach of service agreement and to represent the Company before any competent Court of Law in all matters relating to and arising out of industrial relations of the Company with its staff and all other matters relating to appointment and

Ms. ROSHAN M. MASTER

NOTARY GREATER BOMBAY

11TH FLOOR, CHID TOWER A

100 FEET ROAD,

MUMBAI - 400 008.

NJS ENGINEERS INDIA

NJS

INDIA

Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai 600 002.
025

retrenchment, dismissal or suspension from service of any employee of the Company.

NOTARIAL

10. For the better and more effectively doing, effectuating, executing and performing of the several matters and things herein contained, to delegate, in writing, from time to time, his powers, to a Manager/Officer of the Company, not below the rank of a Deputy General Manager / Chief Engineer to sign correspondences, contracts, tenders, bids, proposals, offers, agreements and documents for specific job with a client/probable client, that may be necessary in the ordinary course of business of the Company

NOTARIAL

11. AND GENERALLY to act as such Attorney or Agent of the Company in relation to the business of the Company and for all or any of the purposes aforesaid and to do and execute or cause to be done and executed all documents and assurances and acts deeds matters or things in or about the business of the Company as the Company could do all and whatsoever the Attorney shall do or cause to be done in or about the premises by virtue of the aforesaid powers or any of them the Company doth hereby for itself, its successors and assigns covenant with the said Attorney and his/her heirs executors and administrators to allow, ratify and confirm.

NOTARIAL

12. This Power of Attorney will remain valid only so long as the Attorney continues to be in the employment of the Company.

NOTARIAL

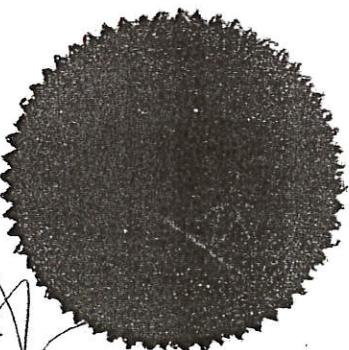
SIGNED SEALED AND DELIVERED THIS 6 DAY OF Feb 2013.

NOTARIAL

The Common Seal of the Company has been affixed pursuant to the resolution passed by the Directors of the Company on 31st January, 2013 in the presence of Mr. Roshan M Master, Director of the Company.

Roshan M Master

NOTARIAL



Mr. Amit Sharma

Specimen Signature of Mr. Amit Sharma.



Before me:
Roshan M Master

MS. ROSHAN M. MASTER
NOTARY, GREATER BOMBAY
2103, ORCHID TOWER A
BELLALIS ROAD,
MUMBAI - 400 008.
Reg. No. 404

5 no. 8505
6.2.2013



Specimen Signature of Mr. Amit Sharma
For Tata Consulting Engineers Limited

(Attest)

Vice President - Legal & Company Secretary
Assistant Contracts Engineer
C.M.W.S.S. Board 026
Chennai-600 002.

SMEC INTERNATIONAL PTY LIMITED
ACN 065 440 619

POWER OF ATTORNEY

SMEC INTERNATIONAL PTY LIMITED, a duly established company whose principal business address is Level 10, 71 Queens Road, Melbourne Victoria 3004, Australia, hereby authorises:

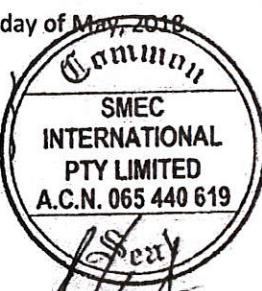
Full name:	Dr. Janardhan Harish Sundaram
Date of Birth:	05 th April 1970
Nationality:	British
Occupation:	Managing Director- SMEC (India) Pvt Ltd
Passport No:	GBR 519977600

- To represent SMEC International Pty. Ltd. before the Central /State/ Local Government Authorities of India, for any purpose connected with or relating to business activities of the Company;
- To sign and submit on behalf of SMEC International Pty Ltd. the Technical and Financial Proposals, Expressions of interest, for the Government of India, any State/ Local Government Authority of India or Private Clients in India and also to sign MOU'S, association/JV agreements with other consultants related to business activities of SMEC in India
- The attorney is also authorized to enter into business negotiations, execute and approve contracts subject to the Instrument of Delegation, perform all obligations and receive and accept all benefits on behalf of the Company.

Executed at Sydney, New South Wales this 28th day of May, 2018

The COMMON SEAL of
SMEC INTERNATIONAL PTY LIMITED
was hereunto affixed in the presence of:

Philip Charles Wilcox
Company Secretary



Angus James Macpherson
Director

Executed in my presence :

PAUL MARTIN ETHERINGTON
153 WALKER STREET NORTH SYDNEY
NSW AUSTRALIA
SOLICITOR AND NOTARY PUBLIC

SMEC Holdings Pty Ltd ABN 84 057 274 049
SMEC Services Pty Ltd ABN 79 066 504 792
SMEC Australia Pty Ltd ABN 47 065 475 149
SMEC International Pty Ltd ABN 32 065 440 619

Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.



ANNEXURE No-1

Member of the Surbana Jurong Group

SMEC (India) Pvt. Ltd.

387, Udyog Vihar, Phase 2,

Gurgaon - 122016 (Haryana), INDIA

Telephone: +91-124-4552800, 4501100

Faxsimile: +91-124-4380043

india@smecc.com

www.smecc.com

**CERTIFIED TRUE COPY OF THE RESOLUTION PASSED BY THE BOARD OF
DIRECTORS OF SMEC (INDIA) PRIVATE LIMITED IN THE 202nd MEETING HELD ON
MONDAY 29th August 2017.**

The Chairman apprised the members that an authorization is required in the name of Company Secretary to represent the Company before various Regulatory/Statutory Forums and Courts. The Board decided to pass the following resolution unanimously:

"Resolved that Mr. Pushpendra Kumar Sharma, Company Secretary is be and hereby authorized to represent the Company as Authorized Representative before Honourable Courts/ National Company Law Tribunal (NCLT) and other Tribunals/ ROC and other Regulatory Authorities/ Quasi Legal Authorities/ Arbitration Tribunals etc. to represent the Company and to do all necessary acts, deeds or things including filing Petitions/ Applications and Responses on behalf of the Company."

**CERTIFIED TRUE COPY
FOR SMEC (INDIA) Pvt. Ltd.**


Dr. Janardhan Sundaram
Managing Director

10th July 2018



QMS

ISO 9001:2008 Certified Company

Reed. Office S07, Bhikali Cama Bhawan, Bhikali Cama Place, New Delhi, 110066. Tel: 011 - 26178458. Fax: 011 - 26188247 CIN: U93000DL1997PTC088574



**Assistant Contracts Engineer
C.M.W.S.S. Board
Chennai-600 002.**



NJS ENGINEERS INDIA PVT. LTD.

(A Wholly Owned Subsidiary of NJS Co. Ltd., Japan)

18, Shailesh Society, Karvenagar, Pune 411052, Phone : 020-60501963

Fax : 020-25459533, Email: puneoffice@njsei.com,

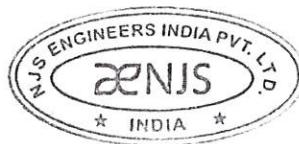
CIN: U74210PN2007PTC129798

Abstract from the minutes of the meeting of the board of Directors held at the project office of the company situation at 9th Floor, Cauvery Bhawan, K. G. Road, Bengaluru, dated 21st Day of November, 2019 at 01:00 PM

Resolved that The Company do hereby constitute and appoint **Mr. Pradipto Sarkar, Director**, India, as our lawful representative to sign all the official documents with full authorization to act on behalf for NJS Engineers India Pvt. Ltd. (Consortium Partner) and perform all relative works in our proxy with respect to the signing and execution of the Main Contract with CMWSSB and Consortium Agreement, subsequent to the acceptance of the Consortium's proposal by Chennai Metro Water Supply & Sewerage Board (CMWSSB), for the consultancy assignment for "**Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the proposed Desalination Plant and its product water conveyance pipeline from the Plant and upto Porur and all allied works**".

Resolved further that the certified True copy of this resolution be Furnished to the lending bank

Dr. Uday Kelkar
(Director)
DIN 02589834



Yogeshwar Gokhale
(Director)
DIN 01106232



DL
Assistant Contracts Engineer
CMWSS Board
Chennai 600 003

