

PMC for 400 MLD SWRO Desalination Plant at Perur, Chennai

Consortium Partners



SMEC International Pty. Ltd. (ACN-065440619/FCRN-F01483)
NJS Engineers India Pvt Ltd, India (CIN - U74210PN2007PTC129798)
Tata Consulting Engineers Limited, India (CIN- U74210MH1999PLC123010)
SMEC (India) Pvt. Ltd. (CIN: U93000DL1997PTC088574)

Ref: SMEC/ CMWSSB / 5061185/077

Date: 08th June 2020

To,
Superintending Engineer (Desalination),
6th Floor, Chennai Metropolitan Water Supply & Sewerage Board,
No.1 Pumping Station Road,
Chintdaripet, Chennai 600 002

Sub: Consultancy for Design, Preparation of Bid Documents & Evaluation of Bids for the proposed construction of 400 MLD capacity Sea Water 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
- Submission of Updated Cost Break-up details between Consortium Members – Reg.

Ref: 1. Our Letter no. Ref: SMEC/ CMWSSB / 7061563/007, 30.01.2020
2. Your Letter no. Lr.no.CMWSSB/SE(Desal)/400 MLD Plant / PMC/2020, dated 13.01.2020
3. Our Contract Agreement with CMWSSB, dated 09.01.2020
4. Our Letter no. Ref : 1600991/BG/08, dated 20th November 2019
5. Our Letter no. Ref : 1600991/LOA/07, dated 08th November 2019
6. Your Letter no. Lr.no.CMWSSB /CNT/CON/DESAL/ICB/Gol/016/2018-19, dated 06.11.2019

Dear Sir,

With reference to Letter of Acceptance vide reference no.6, dated 06.11.2019, the total cost of consultancy services at the value of INR 57,55,55,630 (Rupees Fifty Seven Crores Fifty Five Lakhs Fifty Five Thousand and Six Hundred Thirty only) and in USD 9,411,963 (Nine Million Four Hundred Eleven Thousand Nine Hundred Sixty Three Dollars only). The updated cost break-up summary details among the consortium partners have been given below for the subject project:

| S.No. | Name of the Participant | Role of the Member | Ceiling Amount of each Firm | |
|-------|-------------------------------|--------------------|-----------------------------|---------------------|
| | | | USD | INR |
| 1 | SMEC | Lead Member | 6,510,243 | Nil |
| 2 | TCE | Consortium Member | 324,480 | 25,85,00,000 |
| 3 | NJSEI | Consortium Member | 1,235,600 | 15,95,80,000 |
| 4 | SMEC India | Consortium Member | 869,642 | 11,10,20,600 |
| | Total = | | 8,939,965 | 52,91,00,600 |
| | Contingencies @ 5% | | 446,998 | 2,64,55,030 |
| | Total with Contingencies (A) | | 9,386,963 | 55,55,55,630 |
| | Provisional sum (B) | | 25,000 | 2,00,00,000 |
| | Grand Total (A+B) | | 9,411,963 | 57,55,55,630 |

The above-mentioned total cost is inclusive of Contingencies @ 5% and Provision sums as per our Financial Proposal.

PMC Chennai Office Address:

13th Floor, Purva Primus, No 236, Okhiyampettai, Old Mahabalipuram Road, Thoraipakkam, Chennai, Tamil Nadu 600097

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The staff and financial break up details of each consortium member is enclosed along with this letter.

The payments to be made to the respective partners in the bank accounts provided in the Contract Agreement (SCC Clause No 6.5 (e)) as per the approved invoices within the ceiling amount of cost distribution as indicated above and the corresponding detailed distribution of cost breakup between four Consortium members indicated in the attachments. This is as per the provisions of the Contract Agreement, replies to Pre-bid queries No 46, "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".

The advance invoices and the monthly invoices will be submitted to CMWSSB in a combined covering letter with individual members invoices after consolidation from our end.

CMWSSB is requested to accord their concurrence on the above distribution of costs and procedure for payment to the individual partners so that we can raise the invoices accordingly.

Thanking you and assuring you of our best services at all times.

Yours truly,

For **Consortium of SMEC International-TCE-NJSEI-SMEC (India) Pvt. Ltd.**

S.Srinivasa Rao
Project Co-Ordinator
SMEC India Pvt. Ltd.

Encl: Staff and financial break-up details of each consortium member

PMC Chennai Office Address:

13th Floor, Purva Primus, No 236, Okhiyampettai, Old Mahabalipuram Road, Thoraipakkam, Chennai, Tamil Nadu 600097

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ENCLOSURE-1: BREAKDOWN OF THE REMUNERATIONS AND REIMBURSABLES OF ALL CONSORTIUM MEMBERS

The remuneration and reimbursable share of each participant is given below.

SMEC International Pty Ltd (SMEC)

REMUNERATIONS

| Sl. No. | Name | Position | Man Months | Rate (Per Month) | | Amount | |
|---------|--|---------------------------------------|------------|------------------|-----|------------------|----------|
| | | | | USD | INR | USD | INR |
| | KEY INTERNATIONAL | | | | | | |
| 1 | Dr.Pararajasegram Dharmabalan | Project Manager | 70 | 37,501 | - | 2,625,000 | - |
| 2 | Shane Farquharson | Water Supply Engineer | 23 | 25,360 | - | 583,280 | - |
| 3 | Michel Morillon | Mechanical Engineer (Desal) | 15 | 44,000 | - | 660,000 | - |
| 4 | Sergio de Bastos Vilar Magalhaes Paulo | Electrical Engineer (Desal) | 25 | 13,132 | - | 328,300 | - |
| 5 | John Goullee | Pipeline Engineer | 70 | 22,602 | - | 1,582,140 | - |
| 6 | Roderick Mackenzie | Contract Specialist (Desal) | 9 | 44,407 | - | 399,663 | - |
| 7 | Manikandan Ganesh Shoranur | Monitoring and Control Expert (Desal) | 11 | 19,260 | - | 211,860 | - |
| | | Total | | | | 6,390,243 | - |

REIMBURSABLES

| Sl. No. | Item | Unit | Currency | Quantity | Rate | Amount- USD | Amount- INR |
|----------|----------------------------|--------------|----------|----------|-------|----------------|-------------|
| 2 | DUTY TRAVEL TO SITE | | | | | | |
| 1 | International Air Travel | | | | | | |
| | Professional Staff | Return Trip | USD | 40 | 3,000 | 120,000 | - |
| | | Total | | | | 120,000 | |

Tata Consulting Engineers (TCE)

REMUNERATIONS

| Sl. No. | Name | Position | Man Months | Rate (Per Month) | | Amount | |
|---------|-------------------------------|---|------------|------------------|----------|----------------|---------------------|
| | | | | USD | INR | USD | INR |
| | NON-KEY INTERNATIONAL | | | | | | |
| 1 | Manish Chintamani Sane | Specification Specialist (Distribution) | 3 | 11,560 | - | 34,680 | - |
| 2 | Dr.Alok Kumar | Environmental Specialist | 15 | 12,750 | - | 191,250 | - |
| 3 | Hyacinth Augusto Vaz | Organisational Expert | 9 | 10,950 | - | 98,550 | - |
| | NATIONAL STAFF | | | | | | |
| 1 | S.Siddappaswamy | Senior Civil Engineer (Key -Local) | 72 | - | 8,00,000 | - | 5,76,00,000 |
| 2 | Surajit Debnath | Mechanical Engineer | 40 | - | 5,00,000 | - | 2,00,00,000 |
| 3 | G.V.K Mohan | Electrical Engineer | 45 | - | 5,00,000 | - | 2,25,00,000 |
| 4 | M.K.Vinod | Structural Engineer | 28 | - | 6,25,000 | - | 1,75,00,000 |
| 5 | M.Kumar | Architect | 12 | - | 4,75,000 | - | 57,00,000 |
| 6 | K.Senthil | Building Mechanical and Electrical Engineer | 16 | - | 5,50,000 | - | 88,00,000 |
| 7 | Nagesh Chinnam | Senior Pipeline Engineer (Key - Local) | 72 | - | 6,00,000 | - | 4,32,00,000 |
| 8 | S.Hema Kumar | Pipeline Engineer - 3 | 50 | - | 2,40,000 | - | 1,20,00,000 |
| 9 | Srinivasula Reddy | Specification Specialist | 4 | - | 5,00,000 | - | 20,00,000 |
| 10 | S.M.Karthikaeswaran | Environmental Specialist | 30 | - | 5,00,000 | - | 1,50,00,000 |
| 11 | Najas Thattakatte Abdulkareem | Safety and Health Expert - 1 | 40 | - | 2,40,000 | - | 96,00,000 |
| 12 | Prasanth Balan | Safety and Health Expert - 2 | 70 | - | 2,40,000 | - | 1,68,00,000 |
| 13 | V.S.Rajshekar | Quantity Surveyor - 2 | 70 | - | 2,40,000 | - | 1,68,00,000 |
| | | Total | | | | 324,480 | 24,75,00,000 |

REIMBURSABLES

| Sl. No. | Item | Unit | Currency | Quantity | Rate | Amount- USD | Amount- INR |
|----------|---|---------------|----------|----------|--------|-------------|--------------------|
| 1 | TRANSPORTATION | | | | | | |
| | The vehicles provided by the Consultants shall include the cost for rental, drivers, operation, maintenance, repairs, insurance, etc. | Vehicle Month | INR | 200 | 50,000 | - | 1,00,00,000 |
| 2 | DUTY TRAVEL TO SITE | | | | | | |
| 2 | Local Air Travel | | | | | | |
| a | Professional Staff | Return Trip | INR | 50 | 20,000 | - | 10,00,000 |
| | | Total | | | | | 1,10,00,000 |

NJS Engineers India (NJSEI)
REMUNERATIONS

| Sl. No. | Name | Position | Man Months | Rate (Per Month) | | Amount | |
|---------|------------------------------|------------------------------------|------------|------------------|----------|------------------|---------------------|
| | | | | USD | INR | USD | INR |
| | KEY INTERNATIONAL | | | | | | |
| 1 | Dr.Ghulam Mustafa | Desalination Expert | 32 | 26,225 | - | 839,200 | - |
| 2 | Tharloak S.Bhatt | Contract Specialist (Distribution) | 8 | 22,700 | - | 181,600 | - |
| | NON-KEY INTERNATIONAL | | | | | | |
| 1 | Madhawa Delpachitra | Mechanical Engineer (Distribution) | 4 | 22,700 | - | 90,800 | - |
| 2 | Manfred Kurt (Meisner) | Electrical Engineer (Distribution) | 4 | 23,500 | - | 94,000 | - |
| | NATIONAL STAFF | | | | | | |
| 1 | Chandra Shekhar Reddy Yedla | Pipeline Engineer - 1 | 60 | - | 4,30,000 | - | 2,58,00,000 |
| 2 | V.Tulasi Ram | Pipeline Engineer - 2 | 60 | - | 4,30,000 | - | 2,58,00,000 |
| 3 | P.M.Saravanan | Hydraulic Modeller - 1 | 8 | - | 4,30,000 | - | 34,40,000 |
| 4 | V.Nandhini | Hydraulic Modeller - 2 | 8 | - | 4,30,000 | - | 34,40,000 |
| 5 | Dr.M.Rajshekar Reddy | Social Communication Specialist | 72 | - | 5,00,000 | - | 3,60,00,000 |
| | SUPPORT STAFF | | | | | | |
| 1 | G.Murali | CAD Operator-1 | 30 | - | 1,00,000 | - | 30,00,000 |
| 2 | TBN | CAD Operator-2 | 30 | - | 1,00,000 | - | 30,00,000 |
| 3 | TBN | CAD Operator-3 | 30 | - | 1,00,000 | - | 30,00,000 |
| 4 | TBN | GIS Operator | 18 | - | 2,50,000 | - | 45,00,000 |
| 5 | TBN | Site Inspector-1 | 50 | - | 1,35,000 | - | 67,50,000 |
| 6 | TBN | Site Inspector-2 | 50 | - | 1,35,000 | - | 67,50,000 |
| 7 | TBN | Site Inspector-3 | 50 | - | 1,35,000 | - | 67,50,000 |
| 8 | TBN | Site Inspector-4 | 50 | - | 1,35,000 | - | 67,50,000 |
| 9 | TBN | MIS Specialist | 50 | - | 2,60,000 | - | 1,30,00,000 |
| | | Total | | | | 1,205,600 | 14,79,80,000 |

REIMBURSABLES

| S. No. | Item | Unit | Currency | Quantity | Rate | Amount- USD | Amount- INR |
|----------|---|---------------|----------|----------|--------|---------------|--------------------|
| 1 | TRANSPORTATION | | | | | | |
| | The vehicles provided by the Consultants shall include the cost for rental, drivers, operation, maintenance, repairs, insurance, etc. | Vehicle Month | INR | 84 | 50,000 | - | 42,00,000 |
| 2 | DUTY TRAVEL TO SITE | | | | | | |
| 1 | International Air Travel | | | | | | |
| | Professional Staff | Return Trip | USD | 10 | 3,000 | 30,000 | - |
| 2 | Local Air Travel | | | | | | |
| | Sub-Professional Staff | Return Trip | INR | 20 | 10,000 | - | 2,00,000 |
| 6 | PER-DIEM ALLOWANCE | | | | | | |
| a | International | Days | INR | 1440 | 5,000 | - | 72,00,000 |
| | | Total | | | | 30,000 | 1,16,00,000 |

REMUNERATIONS

| Sl. No. | Name | Position | Man Months | Rate (Per Month) | | Amount | |
|---------|------------------------------|---|------------|------------------|----------|----------------|--------------------|
| | | | | USD | INR | USD | INR |
| | NON-KEY INTERNATIONAL | | | | | | |
| 1 | Dr.D.Elancherian | Civil and Structure Engineer (Desal) | 42 | 10,895 | - | 457,590 | - |
| 2 | Ashish Gosain | Monitoring and Control Expert (Distribution) | 12 | 7,704 | - | 92,448 | - |
| 3 | J.Shanmuganathan | Specification Specialist (Desal) | 4 | 7,264 | - | 29,056 | - |
| 4 | Hemant Chadha | Financial Expert | 3 | 12,106 | - | 36,318 | - |
| 5 | P.Santhosh Kumar | Commissioning Engineer | 10 | 10,015 | - | 100,150 | - |
| 6 | Rajesh Mishra | Social Communication Specialist | 16 | 9,630 | - | 154,080 | - |
| | NATIONAL STAFF | | | | | | |
| 1 | Ramesh Senthil | Civil Engineer | 72 | - | 4,35,750 | - | 3,13,74,000 |
| 2 | Naisa Srinivasulu Reddy | Construction Planner / Cost Estimator | 4 | - | 3,00,000 | - | 12,00,000 |
| 3 | K.C. Vinod Chandra | Quantity Surveyor - 1 | 50 | - | 3,00,000 | - | 1,50,00,000 |
| | SUPPORT STAFF | | | | | | |
| 1 | TBN | Secretary | 70 | - | 52,290 | - | 36,60,300 |
| 2 | Santosh Biswa | Contract Management Specialist | 6 | - | 4,35,750 | - | 26,14,500 |
| 3 | TBN | Geo-technical Engineer | 6 | - | 4,35,750 | - | 26,14,500 |
| 4 | A.Renukumar | Office Manager & Travel & Visa processing officer | 70 | - | 1,04,580 | - | 73,20,600 |
| 5 | K.Manikandan | Accountant | 70 | - | 69,720 | - | 48,80,400 |
| 6 | TBN | Office boy-1 | 70 | - | 26,145 | - | 18,30,150 |
| 7 | TBN | Office boy-2 | 70 | - | 26,145 | - | 18,30,150 |
| | | Total | | | | 869,642 | 7,23,24,600 |

REIMBURSABLES

| Sl. No. | Item | Unit | Currency | Quantity | Rate | Amount- USD | Amount- INR |
|----------------|---|---------------|-----------------|-----------------|-------------|--------------------|--------------------|
| 1 | TRANSPORTATION (REIMBURSABLE) | | | | | | |
| | The vehicles provided by the Consultants shall include the cost for rental, drivers, operation, maintenance, repairs, insurance, etc. | Vehicle Month | INR | 170 | 50,000 | - | 85,00,000 |
| 2 | DUTY TRAVEL TO SITE | | | | | | |
| 2 | Local Air Travel | | | | | | |
| a | Professional Staff | Return Trip | INR | 10 | 20,000 | - | 2,00,000 |
| b | Sub-Professional Staff | Return Trip | INR | 80 | 10,000 | - | 8,00,000 |
| 3 | OFFICE RENT | | | | | | |
| | The Rent Cost Includes Maintenance, Cleaning, Repairs, Electricity etc. | Month | INR | 77 | 1,00,000 | - | 77,00,000 |
| 4 | OFFICE SUPPLIES, UTILITIES & COMMUNICATION | | | | | | |
| 1 | Office Supplies | No. | INR | 77 | 10,000 | - | 7,70,000 |
| 2 | Drafting Supplies | No. | INR | 77 | 6,000 | - | 4,62,000 |
| 3 | Computer Running Costs | No. | INR | 77 | 5,000 | - | 3,85,000 |
| 4 | Domestic Communication | No. | INR | 77 | 15,000 | - | 11,55,000 |
| 5 | OFFICE FURNITURE & EQUIPMENT | | | | | | |
| A | Office Furniture (Purchase) | | | | | | |
| 1 | Work Station Table & Chairs | No. | INR | LS | - | - | 5,00,000 |
| 2 | Conference Hall Table & Chairs | No. | INR | LS | - | - | 2,50,000 |
| 3 | Office Interiors - Fixed | No. | INR | LS | - | - | 10,00,000 |
| B | Office Equipment (Purchase) | | | | | | |
| 1 | Multipurpose Copy Machine | No. | INR | 1 | 2,00,000 | | 2,00,000 |
| 1a | A0,A1,A2 Plotter | No. | INR | 1 | 5,00,000 | | 5,00,000 |
| 2 | Laser Printers | No. | INR | 1 | 1,00,000 | | 1,00,000 |
| 3 | Desktops/Laptops | No. | INR | 15 | 60,000 | | 9,00,000 |

| Sl. No. | Item | Unit | Currency | Quantity | Rate | Amount- USD | Amount- INR |
|----------|---|--------------|----------|----------|----------|-------------|--------------------|
| 4 | Refrigerator, Coffee Vending Machine, Oven etc. | No. | INR | LS | - | | 1,00,000 |
| 5 | Office Attendance Biometric Systems | No. | INR | LS | - | | 1,00,000 |
| 6 | Office Server - Fixed | No. | INR | LS | - | | 10,00,000 |
| 7 | Projector | No. | INR | 2 | 25,000 | | 50,000 |
| 8 | Video Conference with Display TVs | No. | INR | 1 | 3,00,000 | | 3,00,000 |
| 9 | Softwares - Fixed | No. | INR | LS | - | | 30,00,000 |
| 6 | PER-DIEM ALLOWANCE | | | | | | |
| a | International | Days | INR | 810 | 5,000 | - | 40,50,000 |
| b | National | Days | INR | 50 | 5,000 | - | 2,50,000 |
| 7 | REPORTS & DOCUMENT PRINTING | | | | | | |
| a | Monthly Progress Reports | No. | INR | 154 | 6,000 | - | 9,24,000 |
| b | Design Reports | No. | INR | 50 | 10,000 | - | 5,00,000 |
| 8 | SURVEYS & INVESTIGATIONS | | | | | | |
| 1 | Bathymetric Survey | No. | INR | 1 | 8,00,000 | - | 8,00,000 |
| 2 | Geo-Technical Survey | No. | INR | 50 | 15,000 | - | 7,50,000 |
| 3 | Water Sample Testing | No. | INR | 10 | 45,000 | - | 4,50,000 |
| 4 | Topographical Survey | No. | INR | 600 | 5,000 | - | 30,00,000 |
| | | Total | | | | | 3,86,96,000 |

SUMMARY OF THE ABOVE FEE BREAKDOWN

| Participant | Remuneration | | Reimbursables | | Total | |
|--------------|--------------|--------------|---------------|-------------|------------------|---------------------|
| | USD | INR | USD | INR | USD | INR |
| SMEC | 6,390,243 | - | 120,000 | - | 6,510,243 | - |
| TCE | 324,480 | 24,75,00,000 | - | 1,10,00,000 | 324,480 | 25,85,00,000 |
| NJSEI | 1,205,600 | 14,79,80,000 | 30,000 | 1,16,00,000 | 1,235,600 | 15,95,80,000 |
| SMEC India | 869,642 | 7,23,24,600 | - | 3,86,96,000 | 869,642 | 11,10,20,600 |
| Total | | | | | 8,939,965 | 52,91,00,600 |

Note: Above breakup covers remuneration and reimbursable and does not include registration fee, contingencies and provisional sums.