



NATIONAL POWER CORPORATION

SUPPLEMENTAL /BID BULLETIN NO. 1

to the Bid Documents for the
**SUPPLY, DELIVERY, INSTALLATION, TEST AND COMMISSIONING OF FOUR (4)
UNITS OF MODULAR DIESEL GENSETS, ASSOCIATED ELECTRICAL
EQUIPMENT & BALANCE OF PLANT FOR BABUYAN CLARO AND DIBAY-DILAM
DPP UNDER ELECTRIFICATION OF NEW AREAS IN CAGAYAN (PACKAGE 23)
(PR NO. HO-PIB21-015 / PB220118-HG00524)**

14 February 2022

All prospective bidders and authorized copyholders of the terms of reference are hereby informed of the changes in:

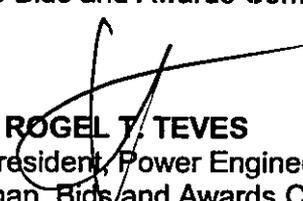
SEE ATTACHED REVISED FILE FOR SECTION VI, PART II-TECHNICAL DATA SHEETS, MW-MECHANICAL WORKS for the following pages:

- p. III-BDS-2
- p. VI-TDS(MW)-i
- p. VI-TDS(MW)-ii
- p. VI-TDS(MW)-1 to 21
- p. VIII- BIDDING FORMS (3/3)

All other terms and conditions shall remain the same.

For the information and guidance of all authorized copyholders of the Terms of Reference (TOR) and prospective bidders.

For the Bids and Awards Committee:


ATTY. ROGEL T. TEVES
Vice President, Power Engineering Services and
Chairman, Bids and Awards Committee



| | |
|-------------|--|
| | <p>The prospective bidders shall declare its Joint Venture partner during the purchase of bid/tender documents. Any single bidder/s who already procured/secured the bidding documents but want to avail the Joint Venture Agreement (JVA) shall inform the BAC in writing prior to the bid opening for records and documentation purposes. Failure to do so shall be a ground for disqualification/non-acceptance of its bid.</p> |
| <p>10.5</p> | <p>Bidders shall also submit the following requirements in their first envelope, Eligibility and Technical Component of their bid:</p> <p>1. Drawings & Documents to be submitted with the Proposal as specified in Sections M-1.0, M-2.0, Annexes A.1 to A.3 for Mechanical Works and Sections E-1.0 and E-2.0 for Electrical Works, Section VI – Part II Technical Data Sheets.</p> <p>Manufacturer's brochures, manuals and other supporting documents of equipment, materials, hardware and tools proposed by the bidders must comply with the technical specifications of such equipment, materials, hardware and tools. It shall be a ground for rejection of the said equipment, materials, hardware and tools if the submitted brochures, manuals and other supporting documents are determined not complying with the specifications during the contract implementation.</p> <p>Equipment, materials, hardware and tools proposed by the winning bidder to be supplied, which were evaluated to be complying with the technical specifications, shall not be replaced and must be the same items to be delivered/installed/used during the contract implementation. Any proposed changes/replacement of said items may be allowed on meritorious reasons subject to validation and prior approval by NPC.</p> <p>2. Complete eligibility documents of the proposed sub-contractor, if any</p> |
| <p>12</p> | <p>The price of the Goods shall be quoted DDP Project Site or the applicable International Commercial Terms (INCOTERMS) for this Project.</p> |
| <p>14.1</p> | <p>The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:</p> <p>a) The amount of not less two percent (2%) of ABC, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or</p> <p>b) The amount of not less than five percent (5%) of ABC, if bid security is in Surety Bond.</p> |

Standard Form No: NPCSF-GOODS-01

- For Joint-Venture, a resolution, duly signed by all the joint-venture partners granting full powers to the authorized signatory
- Drawings & Documents to be submitted with the Bid, Sections M-1.0, M-2.0, Annexes A.1 to A.3 for Mechanical Works and Sections E-1.0 and E-2.0 for Electrical Works, Section VI – Part II Technical Data Sheets;
- Complete eligibility documents of the proposed subcontractor, if any

B. THE 2ND ENVELOPE (FINANCIAL COMPONENT) SHALL CONTAIN THE FOLLOWING:

- Duly signed Bid Letter indicating the total bid amount in accordance with the prescribed form (NPCSF-GOODS-08)
- Duly signed and completely filled-out Schedule of Requirement (Section VII) indicating the unit and total prices per item and the total amount in the prescribed Price Schedule form.
- For Domestic Bidder claiming for domestic preference:
 - Letter address to the BAC claiming for preference
 - Certification from DTI as Domestic Bidder in accordance with the prescribed forms provided

CONDITIONS:

1. Each Bidder shall submit one copy of the first and second components of its Bid. NPC may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.
2. For Joint Venture, each partner of a joint venture agreement shall submit the document required in ITB Clause 12.1(a)(i). Submission of other documents required under ITB Clause 12.1 by any of the joint venture partners constitutes compliance.
3. In the case of foreign bidders, the eligibility requirements under Class "A" Documents (except for Tax Clearance) may be substituted by the appropriate equivalent documents, if any, issued by the country of the foreign bidder concerned. The eligibility requirements or statements, the bids, and all other documents to be submitted to the BAC must be in English. If the eligibility requirements or statements, the bids, and all other documents submitted to the BAC are in foreign language other than English, it must be accompanied by a translation of the documents in English. The documents shall be translated by the relevant foreign government agency, the foreign government agency authorized to translate documents, or a registered translator in the foreign bidder's country; and shall be authenticated by the appropriate Philippine foreign service establishment/post or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines.
 These documents shall be accompanied by a Sworn Statement in a form prescribed by the GPPB stating that the documents submitted are complete and authentic copies of the original, and all statements and information provided therein are true and correct. Upon receipt of the said documents, the PhilGEPS shall process the same in accordance with the guidelines on the Government of the Philippines – Official Merchants Registry (GoP-OMR).
4. A Bidder not submitting bid for reason that his cost estimate is higher than the ABC, is required to submit his letter of non-participation/regret supported by corresponding detailed estimates. Failure to submit the two (2) documents shall be understood as acts that tend to defeat the purpose of public bidding without valid reason as stated under Section 69.1.(i) of the revised IRR of R.A. 9184.

**PART II – TECHNICAL DATA SHEETS
MW – MECHANICAL WORKS
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| SECTION | DESCRIPTION | PAGE |
|--|---|--------------------------------|
| DOCUMENTS TO BE SUBMITTED DURING BID OPENING | | |
| M-1.0 | Diesel Generating Set and Associated Equipment Data Summary | VI-TDS(MW)-2 |
| M-2.0 | Fuel Consumption Form for Diesel Generator Sets | VI-TDS(MW)-4 |
| Annex A.1 | Letter of Authorization and Guarantee Statement either from: 1) Original Equipment Manufacturer (OEM) or 2) Certification/Agreement from OEM as a Licensee or 3) Authorized Distributor/Dealer (accompanied by a Certificate of Authorized Distributorship/Dealership from the OEM/Licensee of the OEM). If from the Licensee, a Certification from the OEM as a Licensee or the Licensee agreement must also be submitted), for the 20 kW and 30 kW Prime Rated Power Diesel Generating Sets. | Attachment As Annex A.1 |
| Annex A.2 | “Diesel Generating Set (Engine + AC Generator) Performance Curve” @ Reference Site Conditions issued by the Manufacturer/Assembler/Integrator (duly signed with full name) for each Diesel Generating Set Model/Type being offered. | Attachment As Annex A.2 |
| Annex A.3 | “Engine Performance Curve” @ Reference Site Conditions issued by the Diesel Engine Manufacturer or Diesel Generating Set Manufacturer/Assembler/Integrator (duly signed with full name) for the Diesel Engine Model/Type being offered | Attachment As Annex A.3 |
| DOCUMENTS TO BE SUBMITTED DURING POST QUALIFICATION BUT NOT LIMITED TO: | | |
| M-3.0 | Diesel Engine | VI-TDS(MW)-6 |
| M-4.0 | Spare Parts | VI-TDS(MW)-7 |
| M-4.1 | Spare Parts per Unit of 30 kW DG Set During the Warranty Period | VI-TDS(MW)-7 |
| M-4.2 | Spare Parts per Unit of 20 kW DG Set During the Warranty Period | VI-TDS(MW)-8 |
| M-4.3 | Spare Parts for the Total Units of 30 kW DG Set Supplied and to be Delivered at Dibay-Dilam DPP | VI-TDS(MW)-9 |
| M-4.4 | Spare Parts for the Total Units of 20 kW DG Set Supplied and to be Delivered at Babuyan Claro DPP | VI-TDS(MW)-10 |
| M-5.0 | Standard/Special Tools and Miscellaneous Tools | VI-TDS(MW)-11 |
| M-5.1 | Standard/Special Tools for the Total Units of 30 kW DG Set Supplied and Delivered at Dibay-Dilam DPP | VI-TDS(MW)-11 |
| M-5.2 | Standard/Special Tools for the Total Units of 20 kW DG Set Supplied and Delivered at Babuyan Claro DPP | VI-TDS(MW)-12 |
| M-5.3 | Miscellaneous Tools to be Supplied and Delivered each at Dibay-Dilam DPP and Babuyan Claro DPP | VI-TDS(MW)-13 |

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| SECTION | DESCRIPTION | PAGE |
|--|--|--|
| DOCUMENTS TO BE SUBMITTED DURING PROJECT IMPLEMENTATION BUT NOT LIMITED TO: | | |
| M-6.0 | ISO 9001 Certificate of the Manufacturer/Assembler/Integrator or equivalent for each of the Diesel Generating Set | |
| M-7.0 | Standard Certification of the proposed offered model of Diesel Generating Set from any of the following internationally recognized certifying body/organization: a) Canadian Standard Association (CSA) b) Underwriter's Laboratories (UL) c) Japanese Industrial Standards (JIS) d) European Commission (CE) e) Lloyd's Register (LR) f) Germanischer Lloyd (GL) g) Niippon Kaiji Kyokai (NKK) h) American Bureau of Shipping (ABS) | |
| M-8.0 | Power Derate Curves and Details or Certificate/Statement from Diesel Generating Set's Manufacturer/Assembler/Integrator that the proposed Diesel Engine-Generator Set have no deration at Reference Site Conditions. | |
| M-9.0 | Manufacturer/Assembler/Integrator's General Data, Catalogue and Brochures of model/type of equipment offered and published as standard products for the Diesel Generating Set which contain the following information: a) Manufacturer/Assembler b) Model/Type c) Prime Rated Power d) Voltage e) Power Factor f) Frequency g) Rated Speed h) Arrangement & Number of Cylinders | |
| M-10.0 | Technical Data for Engine and Auxiliaries | See Attached Forms on page VI-TDS(MW)-17 |
| M-11.0 | Supplier/Manufacturer/Assembler Drawings, Brochures, Instruction Manuals and other Documents as specified in Clause GW-6.3 and other relevant Clauses of the Technical Specifications | |

PART II – TECHNICAL DATA SHEETS**MW – MECHANICAL WORKS****DOCUMENTS TO BE SUBMITTED DURING THE BID OPENING**
(Sections M-1.0, M-2.0, Annexes A.1, A.2 and A.3)**NOTES**

1. The Bidder shall complete this technical data sheet and submit the filled-up forms with the technical proposal. The Bidder shall use additional sheets as necessary for any other additional information following the format shown herein or by reproducing the same.
2. The data required are technical features and characteristics of the Equipment to be provided by the bidder. Bidder's proposal shall at least be equal or superior to the requirements specified by NPC.
3. Deviation from the requirements indicated in the technical data sheets M-1.0, M-2.0 and non-submission of the required documents listed as Annexes A.1, A.2 and A.3 shall be ground for disqualification.
4. All data and information shall be in English language.

| Name of Firm | Name & Signature of Representative | Designation |
|----------------------------|---|--------------|
| NATIONAL POWER CORPORATION |  | VI-TDS(MW)-1 |

M-1.0 DIESEL GENERATING (DG) SET AND ASSOCIATED EQUIPMENT DATA SUMMARY

| ITEM | DESCRIPTION | NPC REQUIREMENT | SUPPLIER'S DATA | |
|----------|---|--|-----------------|-------|
| | | | 30 kW | 20 kW |
| M-1.1 | DG Set (Diesel Engine + AC Generator) (Prime Duty) * : 30 kW 20 kW | Designed, manufactured and tested in compliance with the latest version of the standards* listed below, mounted on heavy duty steel base frame with anti-vibration pads contained in a sound attenuated & weatherproof enclosure | | |
| M-1.1.1 | Manufacturer/Assembler/Integrator of DG Set being offered | By Supplier | | |
| M-1.1.2 | Brand Name of DG Set being offered | By Supplier | | |
| M-1.1.3 | Model of DG Set being offered | By Supplier | | |
| M-1.1.4 | DG Set Manufacturer/Assembler/Integrator Experience, Year | 5 (minimum) | | |
| M-1.1.5 | DG Set Guaranteed Prime Rated Power at Reference Site Conditions* & 0.8 Power Factor, kW | 30 kW (minimum) 20 kW (minimum) | | |
| M-1.1.6 | DG Set Guaranteed Fuel Rate at Required DG Set Prime Power Output & Reference Site Conditions, 100 % Rated Load, li/kW-hr | 0.34 (maximum) | | |
| M-1.1.7 | Voltage, V | 480 (± 5%) | | |
| M-1.1.8 | Power factor | 0.80 (minimum) | | |
| M-1.1.9 | Frequency, Hz | 60 | | |
| M-1.1.10 | No. of Phases, Ø | 3 | | |
| M-1.1.11 | Rated Speed, RPM | 1800 | | |
| M-1.1.12 | Governor | electronic | | |
| M-1.1.13 | Arrangement & Number of Cylinders | In- line & Multi-cylinder | | |
| M-1.1.14 | Maximum Sound Pressure Level @ 1-meter distance, dBA | 85 | | |
| M-1.1.15 | Maximum Permissible NOx, mg/Nm ³ | 2000 as NO ₂ | | |
| M-1.1.16 | Maximum Permissible Sox, mg/Nm ³ | 700 as SO ₂ | | |
| M-1.1.17 | Maximum Permissible CO, mg/Nm ³ | 500 as CO | | |
| M-1.1.18 | Particulates, mg/Nm ³ | 200 | | |
| M-1.1.19 | Factory Acceptance Test | Yes | | |

- NOTES:**
- * IEC 60034, IEC 60085, IEC60529, ISO 9001, ISO 8528 and ISO 3046
 - Guaranteed Fuel Consumption which is more than the specified maximum value will be ground for rejection of the equipment being offered.
 - Experience less than what is required will be ground for rejection of the equipment being offered.

Name of Firm _____ Name & Signature of Representative _____ Designation _____



PART II – TECHNICAL DATA SHEETS

MW – MECHANICAL WORKS

DOCUMENTS TO BE SUBMITTED DURING POST-QUALIFICATION
(Sections M-3.0 to M-5.3)

NOTES

1. The Bidder shall complete this technical data sheet and submit the filled-up forms during the post-qualification which shall only serve as reference for the review and approval of brochure/drawings during implementation stage. The Bidder shall use additional sheets as necessary for any other additional information following the format shown herein or by reproducing the same.
2. The data required are technical features and characteristics of the Equipment to be provided by the bidder which shall at least be equal or superior to the requirements specified by NPC.
3. The lists of Spares and Tools (Items M-4.1 to M-5.3) are preliminary and subject to changes to conform with the final design and model/brand of the proposed equipment (per manufacturer’s standard).

The Bidder shall indicate "N/A" to the respective items in the said lists (Items M-4.1 to M-5.3) if found not applicable to the brand/model of the proposed equipment. However, NPC reserves the right to request the Supplier to provide the same or its equivalent if it is determined as "deemed necessary or standard tool/inherent part or optional item" during the evaluation, checking and review/approval of the final lists to be submitted by the Supplier during the Contract Stage at no cost to NPC.

4. Non submission of the above documents shall be a ground for disqualification.

| Name of Firm | Name & Signature of Representative | Designation |
|----------------------------|---|--------------|
| NATIONAL POWER CORPORATION |  | VI-TDS(MW)-5 |

M-5.2 STANDARD/SPECIAL TOOLS FOR THE TOTAL UNITS OF 20 KW DG SET SUPPLIED AND DELIVERED AT BABUYAN CLARO DPP (Minimum Requirements as Specified in the Technical Specifications & Manufacturer’s Standard/Recommended Tools) ⁺

| ITEM | DESCRIPTION | NPC REQUIREMENT | SUPPLIERS DATA |
|--------|--|-----------------|----------------|
| M-5.2a | Portable computer (Minimum of Intel I7 Processor, 16GB RAM, 500GB HDD, 2Ghz, 12"-13.3" screen size & with the latest pre-installed windows operating system compatible with manufacturer's/ Supplier's software) needed in programming the genset control setting (complete with licensed CD-ROM drive dongles of genset control system) and electronic/digital governing system including other digital components that require exclusive programs from the Manufacturer and/or Supplier with free update throughout the operating life of the genset | 1 set | |
| M-5.2b | Puller, Cylinder Liner | 1 set | |
| M-5.2c | Puller, Generator Bearing | 1 set | |
| M-5.2d | Puller, Injector Sleeve | 1 set | |
| M-5.2e | Extractor, Valve Seat | 1 set | |
| M-5.2f | Extractor, Piston Ring | 1 set | |
| M-5.2g | Extractor, Valve Guide | 1 set | |
| M-5.2h | Extractor, Valve Spring | 1 set | |
| M-5.2i | Expander, Injector Sleeve | 1 set | |
| M-5.2j | Reamer, Injector Sleeve | 1 set | |
| M-5.2k | Calibrator, Injector (Range 0-600 bars) | 1 set | |
| M-5.2l | Feeler Gauge | 1 set | |
| M-5.2m | Special tools for overhauling and re-assembly of turbocharger | 1 set | |
| M-5.2n | Cleaning nozzle for cleaning of turbocharger | 1 set | |
| M-5.2o | Special tools for maintenance and cleaning of radiators and fans | 1 set | |
| M-5.2p | Mechanical Torque Wrench with click type or dial type torque measurement indicators for cylinder head, main and guide bearing, connecting rod and all engine components utilizing bolt and nut as locking medium | 1 set | |
| M-5.2q | Injector timing gauge | 1 pc. | |
| M-5.2r | Standard/special tools necessary for overhauling and re-assembly of engine which are not mentioned above | 1 set | |
| M-5.2s | Other tools recommended by the Manufacturer | 1 lot | |

NOTES: ⁺ *Minimum requirements but the Supplier shall provide/include in the list all the necessary/standard tools required in the performance of normal maintenance and overhaul. The above list is preliminary which is subject to changes to conform with the final design and model/brand of the proposed equipment (per manufacturer's standard). Refer also to NOTE #3 of page VI-TDS(MW)-4.*

| | | |
|----------------------------|---|---------------|
| Name of Firm | Name & Signature of Representative | Designation |
| NATIONAL POWER CORPORATION |  | VI-TDS(MW)-12 |

M-5.3 MISCELLANEOUS TOOLS TO BE SUPPLIED AND DELIVERED EACH AT DIBAY-DILAM DPP AND BABUYAN CLARO (Cont'd.....)⁺

| ITEM | DESCRIPTION | NPC REQUIREMENT | SUPPLIERS DATA |
|-----------|---|-----------------|----------------|
| M-5.3w | Filter Wrench | 1 pc. | |
| M-5.3x | Tongue & Groove Pliers (10") | 1 pc. | |
| M-5.3y | Precision Screwdrivers (long type) | 1 set | |
| M-5.3z | Grease gun | 1 pc. | |
| M-5.3aa | Locker Cabinet with 6 compartment with lock keys and ball rollers | 1 set | |
| M-5.3bb | Tool box, heavy duty, 535mm x 250mm x 238 mm (or as required to contain all the standard/special and miscellaneous Tools) | 1 set | |
| M-5.3cc | Other tools recommended by the Manufacturer | 1 lot | |
| M-5.3cc.1 | | | |
| M-5.3cc.2 | | | |
| M-5.3cc.3 | | | |
| M-5.3cc.4 | | | |
| M-5.3cc.5 | | | |
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NOTES: ⁺ Minimum requirements but the Supplier shall provide/include in the list all the necessary/standard tools required in the performance of normal maintenance and overhaul. The above list is preliminary which is subject to changes to conform with the final design and model/brand of the proposed equipment (per manufacturer's standard). Refer also to NOTE #3 of page VI-TDS(MW)-4.

| | | |
|----------------------------|---|---------------|
| Name of Firm | Name & Signature of Representative | Designation |
| NATIONAL POWER CORPORATION |  | VI-TDS(MW)-14 |

PART II – TECHNICAL DATA SHEETS

MW – MECHANICAL WORKS

DOCUMENTS TO BE SUBMITTED DURING THE PROJECT IMPLEMENTATION BUT NOT LIMITED TO:

(Sections M-6.0 to M-11.0)

NOTES

1. The Bidder shall complete this technical data sheet/documents and submit the filled-up forms during the project implementation (during contract stage). The Bidder shall use additional sheets as necessary for any other additional information following the format shown herein or by reproducing the same.
2. The data required are technical features and characteristics of the Equipment to be provided by the bidder. Bidder's proposal shall at least be equal or superior to the requirements specified by NPC. The data provided shall be used as basis for evaluation of brochures, drawings and other documents to be submitted for review and approval during the project implementation.
3. All data and information shall be in English language.

| DOCUMENTS TO BE SUBMITTED DURING PROJECT IMPLEMENTATION BUT NOT LIMITED TO: | | |
|--|--|-------------|
| SECTION | DESCRIPTION | PAGE |
| M-6.0 | ISO 9001 Certificate of the Manufacturer/Assembler/Integrator or equivalent for each of the Diesel Generating Set | |
| M-7.0 | Standard Certification of the proposed offered model of Diesel Generating Set from any of the following internationally recognized certifying body/organization: a) Canadian Standard Association (CSA) b) Underwriter's Laboratories (UL) c) Japanese Industrial Standards (JIS) d) European Commission (CE) e) Lloyd's Register (LR) f) Germanischer Lloyd (GL) g) Niiippon Kaiji Kyokai (NKK) h) American Bureau of Shipping (ABS) | |

Cont'd.....

| DOCUMENTS TO BE SUBMITTED DURING PROJECT IMPLEMENTATION BUT NOT LIMITED TO: | | |
|--|--|--|
| SECTION | DESCRIPTION | PAGE |
| M-8.0 | Power Derate Curves and Details or Certificate/Statement from Diesel Generating Set's Manufacturer/Assembler/ Integrator that the proposed Diesel Engine-Generator Set have no deration at Reference Site Conditions. | |
| M-9.0 | Manufacturer/Assembler/Integrator's General Data, Catalogue and Brochures of model/type of equipment offered and published as standard products for the Diesel Generating Set which contain the following information: i) Manufacturer/Assembler j) Model/Type k) Prime Rated Power l) Voltage m) Power Factor n) Frequency o) Rated Speed p) Arrangement & Number of Cylinders | |
| M-10.0 | Technical Data for Engine and Auxiliaries | See Attached Forms on page VI-TDS(MW)-17 |
| M-11.0 | Supplier/Manufacturer/Assembler Drawings, Brochures, Instruction Manuals and other Documents as specified in Clause GW-6.3 and other relevant Clauses of the Technical Specifications | |

M-10.0 DIESEL ENGINE (Cont'd.....)

| ITEM | DESCRIPTION | NPC REQUIREMENT | SUPPLIER'S DATA | |
|-----------|---|-------------------------------|-----------------|-------|
| | | | 30 kW | 20 kW |
| M-10.7 | FUEL SYSTEM | | | |
| M-10.7.1 | Fuel Feed Pump Capacity, m ³ /hr | By Supplier | | |
| M-10.7.2 | Discharge Head of Feed Pump, m | By Supplier | | |
| M-10.7.3 | Fuel Filter Type and Mesh, microns | Spin-On Full Flow | | |
| M-10.7.4 | Injection Nozzle Type | By Supplier | | |
| M-10.7.5 | Fuel Day Tank Capacity, m ³ | 1 | | |
| M-10.7.6 | Fuel Day Tank Type (Elevated) | Rectangular or Approved Shape | | |
| M-10.7.7 | Fuel Tank Dimensions (W x L x H), m | Per Drawings | | |
| M-10.7.8 | Fuel Tank Plate Material, ASTM | A 36 | | |
| M-10.7.9 | Fuel Tank Shell Thickness, mm | 5 (minimum) | | |
| M-10.7.10 | Structural Steel Supports | Included | | |

 Name of Firm Name & Signature of Representative Designation



