

| BROAD RESPONSIBILITY MATRIX BETWEEN BHEL & QEM<br>FOR EXECUTION OF 50 MW GAS ENGINE BASED POWER PLANT AT ANDAMAN |                                                                        |      |     |                                                                     |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|------|-----|---------------------------------------------------------------------|
|                                                                                                                  |                                                                        |      |     | <b>Rev 01 Date 09-JAN-2021</b>                                      |
|                                                                                                                  |                                                                        |      |     | changes highlighted in grey shade for convenience of identification |
| Sl.No.                                                                                                           | SCOPE DESCRIPTION                                                      | BHEL | QEM | REMARKS                                                             |
| <b>A</b>                                                                                                         | <b>SUPPLY OF EQUIPMENT, SYSTEMS, TOOLS, SPARES AND SERVICES</b>        |      |     |                                                                     |
| A.1                                                                                                              | <b>GENERATING SET</b>                                                  |      |     |                                                                     |
| A.1.1                                                                                                            | <b>Gas Engine</b>                                                      |      | √   |                                                                     |
| A.1.1.1                                                                                                          | Engine Accessories                                                     |      | √   |                                                                     |
| A.1.1.2                                                                                                          | Common base frame                                                      |      | √   |                                                                     |
| A.1.1.3                                                                                                          | Flexible connections between engine and external piping                |      | √   |                                                                     |
| A.1.1.4                                                                                                          | Generating set assembly                                                |      | √   |                                                                     |
| A.1.1.5                                                                                                          | Set steel springs                                                      |      | √   |                                                                     |
| A.1.2                                                                                                            | <b>GENERATOR</b>                                                       |      |     |                                                                     |
| A.1.2.1                                                                                                          | Alternator and Excitation System                                       |      | √   |                                                                     |
| A.1.2.2                                                                                                          | Flexible Coupling                                                      |      | √   |                                                                     |
| A.1.2.3                                                                                                          | Flywheel cover                                                         |      | √   |                                                                     |
| A.1.2.4                                                                                                          | External Terminal Box for surge capacitors and arrestors if applicable |      | √   |                                                                     |
| A.1.2.5                                                                                                          | Generator type test                                                    |      | √   |                                                                     |
| A.1.3                                                                                                            | <b>ENGINE PLATFORM</b>                                                 |      | √   |                                                                     |
| A.2                                                                                                              | <b>MECHANICAL AUXILIARY SYSTEMS</b>                                    |      |     |                                                                     |
| A.2.1                                                                                                            | <b>AUXILIARY MODULES</b>                                               |      | √   |                                                                     |
| A.2.2                                                                                                            | <b>FUEL SYSTEM</b>                                                     |      | √   |                                                                     |
| A.2.3                                                                                                            | <b>LIGHT FUEL OIL SYSTEM</b>                                           |      | NA  | Not Applicable                                                      |
| A.2.4                                                                                                            | <b>GAS SYSTEM</b>                                                      |      |     |                                                                     |
| A.2.4.1                                                                                                          | Plant Isolation Valve (manual)                                         |      | √   |                                                                     |
| A.2.4.2                                                                                                          | Real time gas analyser                                                 |      | √   |                                                                     |
| A.2.4.3                                                                                                          | Main Safety shut off valve - engine specific                           |      | √   |                                                                     |
| A.2.4.4                                                                                                          | Gas regulating unit (GRU)                                              |      | √   |                                                                     |
| A.2.4.5                                                                                                          | Flow meter for gas regulating unit                                     |      | √   |                                                                     |
| A.2.4.6                                                                                                          | Gas Flow Measuring unit                                                | √    |     |                                                                     |
| A.2.4.7                                                                                                          | Piping and valves - gas system                                         | √    |     |                                                                     |
| A.2.5                                                                                                            | <b>LUBRICATING OIL SYSTEM</b>                                          |      |     |                                                                     |
| A.2.5.1                                                                                                          | <b>ENGINE LUBE OIL SYSTEM</b>                                          |      |     |                                                                     |
| A.2.5.1.1                                                                                                        | Lube oil separator                                                     |      | NE  | Not Envisaged - Bidder to Confirm                                   |
| A.2.5.1.2                                                                                                        | Lube oil cooler                                                        |      | √   |                                                                     |
| A.2.5.1.3                                                                                                        | Pre lub pump set                                                       |      | √   |                                                                     |
| A.2.5.1.4                                                                                                        | Lub oil filter                                                         |      | √   |                                                                     |
| A.2.5.1.5                                                                                                        | Thermostatic valve                                                     |      | √   |                                                                     |
| A.2.5.1.6                                                                                                        | Oil Mist Coalescer                                                     |      | √   |                                                                     |
| A.2.6                                                                                                            | <b>PLANT LUBE OIL SYSTEM</b>                                           | √    |     |                                                                     |
| A.2.7                                                                                                            | <b>COMPRESSED AIR SYSTEM</b>                                           | √    |     |                                                                     |
| A.2.8                                                                                                            | <b>STARTING AIR SYSTEM</b>                                             | √    |     |                                                                     |
| A.2.9                                                                                                            | <b>WORKING AIR SYSTEM</b>                                              | √    |     |                                                                     |
| A.2.10                                                                                                           | <b>COOLING SYSTEM</b>                                                  | √#   | √   | #Only Piping and Valves in BHEL's scope                             |
| A.2.11                                                                                                           | <b>ENGINE COOLING SYSTEM</b>                                           |      | √   |                                                                     |
| A.2.12                                                                                                           | <b>CHARGE AIR SYSTEM</b>                                               |      | √   |                                                                     |
| A.2.12.1                                                                                                         | Intake air filters - Combined Oil wetted and dry type                  |      | √   |                                                                     |
| A.2.12.2                                                                                                         | Rain hood for charge air filters                                       |      | √   |                                                                     |
| A.2.12.3                                                                                                         | Insect screen for charge air filters                                   |      | √   |                                                                     |
| A.2.12.4                                                                                                         | Charge air silencer (mounted on the EGM)                               |      | √   |                                                                     |
| A.2.12.5                                                                                                         | Intake air ducting (between engine & air filter(s))                    | √    |     |                                                                     |
| A.2.13                                                                                                           | <b>EXHAUST GAS SYSTEM</b>                                              |      |     |                                                                     |
| A.2.13.1                                                                                                         | Exhaust gas branch pipe (mounted on the exhaust gas module)            |      | √   |                                                                     |
| A.2.13.2                                                                                                         | Exhaust Gas Silencer                                                   |      | √   |                                                                     |
| A.2.13.3                                                                                                         | Expansion bellows                                                      |      | √   |                                                                     |
| A.2.13.4                                                                                                         | Exhaust gas ventilation fan (mounted on the exhaust gas module)        |      | √   |                                                                     |
| A.2.13.5                                                                                                         | Safety vent                                                            |      | √   |                                                                     |
| A.2.13.6                                                                                                         | Exhaust gas duct                                                       | √    |     |                                                                     |
| A.2.13.7                                                                                                         | Exhaust gas steel stack                                                | √    |     |                                                                     |
| A.2.13.8                                                                                                         | Exhaust duct and stack insulation                                      | √    |     |                                                                     |
| A.2.13.9                                                                                                         | Piping and valves - exhaust gas system                                 | √    |     |                                                                     |
| A.2.14                                                                                                           | <b>OILY WATER HANDLING SYSTEM</b>                                      |      |     |                                                                     |
| A.2.14.1                                                                                                         | Oily Water Transfer Pump Unit                                          | √    |     |                                                                     |
| A.2.14.2                                                                                                         | Oily water settling tank                                               | √    |     |                                                                     |
| A.2.14.3                                                                                                         | Oily water settling tank equipment                                     | √    |     |                                                                     |
| A.2.14.4                                                                                                         | Underground oil trap                                                   | √    |     |                                                                     |
| A.2.14.5                                                                                                         | Sewage Treatment System                                                | √    |     |                                                                     |
| A.2.14.6                                                                                                         | Piping and valves - oily water handling system                         | √    |     |                                                                     |
| A.2.15                                                                                                           | <b>WATER TREATMENT SYSTEM</b>                                          | √    |     |                                                                     |

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|                                                                                                                  |                                                                                 |      |     | <b>Rev 01 Date 09-JAN-2021</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                                                                  |                                                                                 |      |     | changes highlighted in grey shade for convenience of identification                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Sl.No.                                                                                                           | SCOPE DESCRIPTION                                                               | BHEL | QEM | REMARKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| A.2.16                                                                                                           | <b>FIRE FIGHTING SYSTEM</b>                                                     | √    |     | 1. Plant Fire Protection system shall be in BHEL's scope. However, Fire Protection & detection requirements, specific to GE sets, shall be in QEM's scope. From Terminal Point, further hooking up to centralised system shall be in BHEL's scope.<br><br>2. FPS Sub-systems for GE sets provided by QEM : Details to be informed by QEM for further interface with Plant FPS by BHEL. Typical scheme and layout, design documents, Hazardous area classification to be submitted to BHEL for study. |
| A.2.17                                                                                                           | <b>PIPE SUPPORTS AND STRUCTURAL</b>                                             | √    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.18                                                                                                           | <b>EMISSION CONTROL AND MONITORING SYSTEMS</b>                                  | √    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.18.1                                                                                                         | Ambient Air Quality Monitoring Station (AAQMS)                                  | √    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.19                                                                                                           | <b>PLC FOR ENGINE AND AUXILIARY CONTROL</b>                                     |      | √   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.20                                                                                                           | <b>CONTROL SYSTEM/PANEL</b>                                                     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.20.1                                                                                                         | ENGINE CONTROL PANEL                                                            |      | √   | Engines is supplied with a dedicated engine mounted control panel which is a PLC based control panel with remote communication facility.                                                                                                                                                                                                                                                                                                                                                             |
| A.2.20.2                                                                                                         | GENESET CONTROL PANEL (Engine and Alternator control including synchronisation) |      | √   | The GCP controls and supervises the Genset (Engine and Alternator) and their related systems in combination with the local engine control and common control. It realizes the control, synchronization and protection of the alternator circuit breaker in MV (Medium Voltage) switchgear.                                                                                                                                                                                                           |
| A.2.20.3                                                                                                         | COMMON CONTROL PANEL (CCP) FOR SYNCHRONISATION AND CONTROL                      |      | √   | Load sharing controller among GE sets shall be by GE vendor, same will be installed in CCP (free issued to BHEL), all interfacing system of load sharing controller also shall be by GE vendor.                                                                                                                                                                                                                                                                                                      |
| A.2.20.4                                                                                                         | SCADA INCLUDING EWS & OWS etc.                                                  |      | √   | the entire plant can be operated depending on each SCADA panel (back up to CCP).                                                                                                                                                                                                                                                                                                                                                                                                                     |
| A.2.21                                                                                                           | AUTOMATIC VOLTAGE REGULATOR (AVR)                                               |      | √   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.22                                                                                                           | 415V DG AUXILIARY MCC                                                           |      | √   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.23                                                                                                           | DC SYSTEM FOR ENGINE STARTING (IF APPLICABLE)                                   |      | NE  | Not Envisaged - Bidder to Confirm                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| A.2.24                                                                                                           | <b>ENERGY METERING PANEL</b>                                                    | √    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.25                                                                                                           | <b>LV DISTRIBUTION TRANSFORMERS (IF APPLICABLE)</b>                             | √    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.26                                                                                                           | <b>POWER TRANSFORMERS</b>                                                       | √    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.27                                                                                                           | <b>HT SWITCHGEAR</b>                                                            | √    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.28                                                                                                           | <b>LT SWITCHGEAR (PMCC/MCC/ACDB, MV, LV Bus ducts)</b>                          | √    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.29                                                                                                           | <b>CABLES, TRAYS AND ACCESSORIES</b>                                            | √    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.30                                                                                                           | <b>ELECTRICAL PROTECTION SYSTEM FOR TRANSFORMERS</b>                            | √    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.31                                                                                                           | <b>NEUTRAL GROUNDING SYSTEM</b>                                                 | √    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.32                                                                                                           | <b>FIRE PROOF MATERIALS</b>                                                     | √    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.33                                                                                                           | <b>DC and UPS SYSTEM</b>                                                        | √    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.34                                                                                                           | <b>CCTV</b>                                                                     | √    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.35                                                                                                           | <b>PLANT ILLUMINATION</b>                                                       | √    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.36                                                                                                           | <b>PLANT EARTHING</b>                                                           | √    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.37                                                                                                           | <b>PLANT COMMUNICATION SYSTEM</b>                                               | √    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.38                                                                                                           | <b>LT EMERGENCY CUM BLACK START DG SET PACKAGE IF APPLICABLE</b>                | √    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.39                                                                                                           | <b>ELECTRICAL SYSTEM STUDIES AND RELAY COORDINATION</b>                         | √    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.40                                                                                                           | <b>TOOLS</b>                                                                    |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.40.1                                                                                                         | Tools for engine and turbocharger                                               |      | √   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.40.2                                                                                                         | Hand Tools                                                                      | √    | √   | For Respective Items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| A.2.40.3                                                                                                         | LO separator Tools                                                              |      |     | Not Envisaged - Bidder to Confirm                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| A.2.40.4                                                                                                         | Electrical System Tools                                                         | √    | √   | Specific Tools which are required for Bidder (QEM) supplied items i.e Engine Control System, SCADA etc are in Bidder's scope. Other general items by BHEL.                                                                                                                                                                                                                                                                                                                                           |
| A.2.41                                                                                                           | <b>SPARES</b>                                                                   |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.41.1                                                                                                         | Commissioning spares                                                            | √    | √   | For Respective Items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| A.2.41.2                                                                                                         | Mandatory Spares                                                                | √    | √   | For Respective Items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| A.2.42                                                                                                           | <b>OUTDOOR SWITCHYARD (IF APPLICABLE)</b>                                       | √    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.43                                                                                                           | <b>POWER PLANT - BUILDING</b>                                                   | √    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.44                                                                                                           | <b>POWER HOUSE</b>                                                              | √    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.45                                                                                                           | <b>POWER PLANT - CIVIL CONSTRUCTION</b>                                         | √    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.46                                                                                                           | <b>VENTILATION &amp; AIR CONDITIONING</b>                                       | √    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.47                                                                                                           | <b>LIFTING SYSTEM</b>                                                           | √    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.48                                                                                                           | <b>ROOFTOP SOLAR SYSTEM</b>                                                     | √    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.49                                                                                                           | <b>SERVICES</b>                                                                 | √    | √   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| A.2.49.1                                                                                                         | ENGINEERING                                                                     | √    | √   | QEM shall submit Basic engineering inputs for the items in their scope of supply. Detail Engineering shall be in BHEL scope.                                                                                                                                                                                                                                                                                                                                                                         |

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| Sl.No.                                                                                                           | SCOPE DESCRIPTION                                                          | BHEL | QEM | REMARKS                                                                                                                                                                        |
| A.2.49.2                                                                                                         | ERECTION OF EQUIPMENT                                                      | √    |     |                                                                                                                                                                                |
| A.2.49.3                                                                                                         | SUPERVISION OF ERECTION                                                    | √    | √   | For Respective Items                                                                                                                                                           |
| A.2.49.4                                                                                                         | TESTING & COMMISSIONING                                                    | √    | √   | For Respective Items                                                                                                                                                           |
| A.2.49.5                                                                                                         | TRAINING AS REQUIRED BY M/s NVVNL'S TENDER                                 | √    | √   | For Respective Items                                                                                                                                                           |
| <b>B</b>                                                                                                         | <b>DOCUMENTS DURING PRE AND POST -BID STAGE OF TENDER</b>                  |      |     |                                                                                                                                                                                |
| B.1                                                                                                              | Design Engineering                                                         | √    | √   | QEM shall submit Basic engineering inputs for the items in their scope of supply. Detail Engineering shall be in BHEL scope.                                                   |
| B.2                                                                                                              | Plot Plan                                                                  | √    | *   | For Respective Items                                                                                                                                                           |
| B.3                                                                                                              | Layout and GA details                                                      |      | √   | For Respective Items                                                                                                                                                           |
| B.4                                                                                                              | Equipment foundation details                                               |      | √   | For Respective Items                                                                                                                                                           |
| B.5                                                                                                              | Equipment loading Details                                                  | √    | √   | For Respective Items                                                                                                                                                           |
| B.6                                                                                                              | Design basis report                                                        |      | √   | For Respective Items                                                                                                                                                           |
| B.7                                                                                                              | BOQ (Structures, pipes, valves and cables)                                 | √    | √   | The total BOQs for Plant will be prepared and supplied by BHEL, considering the requirements of skids in the scope of QEM; Inputs to be furnished by QEM for their scope skids |
| <b>C</b>                                                                                                         | <b>OTHER ITEMS</b>                                                         |      |     |                                                                                                                                                                                |
| C.1                                                                                                              | Statutory clearance- Explosives                                            | √    | *   |                                                                                                                                                                                |
| C.2                                                                                                              | Statutory clearance- Electrical                                            | √    | *   |                                                                                                                                                                                |
| C.3                                                                                                              | Statutory clearance- Pollution                                             | √    | *   |                                                                                                                                                                                |
| C.4                                                                                                              | Statutory clearance- Factory inspectorate                                  | √    | *   |                                                                                                                                                                                |
| C.5                                                                                                              | Statutory clearance- All other clearances                                  | √    | *   |                                                                                                                                                                                |
| C.6                                                                                                              | Sea shipment -freight charges                                              | √    | √#  | # from QEM's Works to Chennai Port in QEM's scope                                                                                                                              |
| C.7                                                                                                              | Inland transportation to site - imported eqpt.                             | √#   |     | # from Chennai Seaport to site in BHEL's scope                                                                                                                                 |
| C.8                                                                                                              | CIP-Site / FOR-Site (as per INCOTERMS 2010)                                | √    | √#  | # CIF Chennai                                                                                                                                                                  |
| C.9                                                                                                              | Unloading of eqpt. at site                                                 | √    |     |                                                                                                                                                                                |
| C.10                                                                                                             | Port clearance                                                             | √    |     |                                                                                                                                                                                |
| C.11                                                                                                             | Customs Duty Payment                                                       | √    |     |                                                                                                                                                                                |
| C.12                                                                                                             | Transit insurance upto Indian port                                         |      | √   |                                                                                                                                                                                |
| C.13                                                                                                             | Transit insurance -Port to site                                            | √#   |     | # from Chennai Port to site                                                                                                                                                    |
| C.14                                                                                                             | Transit insurance -Ex-works to site                                        | √    | √   |                                                                                                                                                                                |
| C.15                                                                                                             | Erection & Commissioning Insurance                                         | √    |     |                                                                                                                                                                                |
| C.16                                                                                                             | Cleared & fenced space for Erection & Commissioning                        | √    |     |                                                                                                                                                                                |
| C.17                                                                                                             | Construction Power                                                         | √    |     |                                                                                                                                                                                |
| C.18                                                                                                             | Construction Water                                                         | √    |     |                                                                                                                                                                                |
| C.19                                                                                                             | Local Transportation                                                       | √    | √   |                                                                                                                                                                                |
| C.20                                                                                                             | Vehicle                                                                    | √    | √   |                                                                                                                                                                                |
| C.21                                                                                                             | Security for personnel and Items during installation                       | √    |     |                                                                                                                                                                                |
| C.22                                                                                                             | Site Office                                                                | √    |     |                                                                                                                                                                                |
| C.23                                                                                                             | Site accommodation                                                         | √    | √   |                                                                                                                                                                                |
| <b>D</b>                                                                                                         | <b>OPERATION &amp; MAINTENANCE</b>                                         |      |     |                                                                                                                                                                                |
| D.1                                                                                                              | OPERATION & MAINTENANCE of Equipment as per M/s NVVNL's Tender requirement | √    | √   | For Respective Items                                                                                                                                                           |

|                                     |
|-------------------------------------|
| <b>LEGEND:</b>                      |
| QEM - Qualified Engine Manufacturer |
| √ Prime Responsibility              |
| * Support to Other Partner          |

Note : Above mentioned items are indicative in nature. Any of the components / sub-systems / assemblies which are not specifically mentioned, but are required for commissioning of Gas Engine sets are in the scope of QEM