PT PARVI INDAH PERSADA

TERMS OF REFERENCE (SCHEDULE 1)

PROCUREMENT OF HYBRID POWER SYSTEM FOR 6 UNITS RTGC

Bidding Reference Number: PIP-RFQ-1225-001

PT PARVI INDAH PERSADA
Jl. Kebon Bawang I No. 45 RT 007 RW 007, Kebon Bawang Tanjung Priok
Jakarta Utara, DKI Jakarta, Indonesia 14320

TERMS OF REFERENCE

CONTENTS

SECTION 1

INSTRUCTIONS TO BIDDING PARTICIPANT ("Participant")

1. All interested Participants shall download Tender Documents from PT Parvi Indah Persada's ("PT PIP") web site at https://pipte.com/parviweb/procurement/, consist of Term of Reference and Bidding Documents.
2. The Participant is deemed to have read these instructions carefully and to assure that all the requirements contained herein are complied with before bidding documents is submitted. These instructions to Participants so far as they may affect the execution of the contract, shall be deemed to form part of the contract.
3. The Participant is deemed to have examined the Tender Documents thoroughly and carefully and shall refer to the Tender Committee for instructions should any discrepancy of bidding arise.
4. The Participant shall upon download of the Tender Documents check the documents completeness to ensure no parts or pages are missing or are in duplicate or multiple copies. Should any occurrence be found, the Participant shall inform PT PIP immediately who shall have it rectified.
5. PT PIP requires bidding for **PROCUREMENT OF HYBRID POWER SYSTEM FOR 6 UNITS RTGC** using Open Bidding method.
6. Hereby is the list of documents to Participants in relation to this bidding:
   - Schedule 1: Terms of Reference, consist of:
     1.1 Instructions to Bidding Participant
     1.2 Technical Specifications
     1.3 Draft Articles of Agreement / Contract
     1.4 Bids Evaluation Method
   - Schedule 2: Bidding Documents
7. The Participant shall fill in all documents in Schedule 2 of the bidding documents in BLACK INK and shall sign and chop with Bidder's company stamp and date the documents in the space provided.
8. All completed bidding documents in Schedule 2, together with other relevant supporting documents, shall be submitted in 1 (one) sealed envelope (the seal should be chopped with Bidder's company stamp) and being labeled with the format as below:

   PT Parvi Indah Persada
   Bidding Reference No.: PIP-RFQ-1225-001
   PROCUREMENT OF HYBRID POWER SYSTEM FOR 6 UNITS RTGC
   Submitted by: [Bidding Participant Name]

9. Completed bidding documents should be delivered to PT PIP not later than **09.00 WIB (Indonesian West Time) on 15 January 2026** (which is the closing date of bidding document submission) at the following address:

   PT Parvi Indah Persada
   Jl. Kebon Bawang I No. 45 RT 007 RW 007, Kebon Bawang
   Tanjung Priok Jakarta Utara, DKI Jakarta, Indonesia 14320

   The Participant shall arrange for the documents to be posted in time to reach the stipulated place of submission of bidding not later than the time stipulated. Any bidding documents delivered after the stipulated time shall not be considered.
10. If there is any question regarding this bidding, please sent email to **chiong@pipte.com** with subject "**Question-[PIP-RFQ-1225-001]**" at the latest on **4 January 2026** and we will reply any question at the latest 2 (two) day after.

11. Bidding documents received from Bidders will be opened by the Evaluation Committee on **15 January 2026** at 10.00 WIB at PT PIP's Office and followed by bidding evaluation.
12. The bidding winner will be published at PT PIP's Office from **16 till 19 January 2026**.
13. The bidding winner will be notified through email on **20 January 2026**.
14. Every notice issued to PT PIP shall be posted to the PT PIP's address given in this instruction and such posting shall be deemed to be service of such notice.
15. The Participant shall not be reimbursed for whatever expenses or losses which may be incurred in the preparation of this bidding.
16. The Participant (whether or not he submits a bidding) shall treat details of the documents as STRICTLY PRIVATE and CONFIDENTIAL.
17. Bidding Documents submitted by any Participant who has not conformed with the foregoing instructions may be rejected.
18. As required in this bidding, the Participant is required to provide all necessary documents.
19. Technical specifications must be put in the Technical Specification Response.
20. In order to obtain a fair and competitive bidding, the Participant shall not, at any time for the duration of the bidding period, solicit and or negotiate with any personnel in PT PIP and/or any other Participant who are involved in this Bidding exercise. Failure to comply with this clause shall render the Participant liable for immediate disqualification.

SECTION 2

TECHNICAL SPECIFICATIONS
PROCUREMENT OF HYBRID POWER SYSTEM FOR 6 UNITS RTGC

1. Introduction

1.1 PT Parvi Indah Persada ("PT PIP") maintains and operates six (6) units Rubber Tires Gantry Crane (RTGC) in two Container Terminals that are operated by its sister companies in Tanjung Priok Port, Jakarta, Indonesia. These terminals are T300 Terminal and Adipurusa Terminal. PT PIP intends to procure Hybrid Power System for these 6 units RTGC, (hereby referred as the "Works") to replace big capacity diesel generator set presently use on RTGC as the power source

1.2 Hybrid Power System uses a sufficiently sized battery pack to supply power to RTGC. When the battery's charge level is low, a small size (low power) diesel generator set is started for recharging the battery. The diesel generator set is shut down when the battery's charge has reached the set threshold. The battery pack also supplies power to RTGC's auxiliary system.

1.3 The objective of RTGC Hybrid System is diesel fuel saving compared to conventional diesel generator set, due to use of a small size (low power) diesel generator set that is turned on when needed to charge the battery. When RTGC hoists down container, regenerated electricity is fed back and stored in the battery to be used for future hoisting and other movements. RTGC Hybrid Power System will improve operational efficiency by significantly decrease fuel consumption and carbon emissions of RTGC and reduce engine's maintenance cost.

1.4 It is assumed that the Contractor reads and understands these requirements and reviewed attached documents and procedures in conjunction with the Terms and Conditions of Contract.

1.5 The Contractor shall be responsible to bring to site, all tools and equipment whatsoever required to complete the Works.

2. Safety

2.1 The Contractor shall be responsible for the safety of all personnel employed on site pertaining to Works. Safety policies of PT PIP in force, shall be adhered to at all times and the Contractor shall be responsible for all necessary safety equipment, clothing etc. required by the Contractor's personnel to carry out the duties associated with the Works.

2.2 It is the responsibility of the Contractor to ensure the highest degree of safety is enforced during the execution of the intended works. This is required to ensure equipment and personnel safety. PT PIP has the right to stop the Contractor if safety is not observed to the satisfaction of PT PIP's safety rules and procedures.

2.3 The Contractor shall insure all personnel employed on site to cover injuries or death arising out of the performance of the Works.

2.4 The Contractor shall be responsible for managing and maintaining a safe work area at the site at all times. Necessary precautions shall be taken by the Contractor to inhibit access to the site of equipment and/or personnel other than those associated with the Works.

3. Scope of Supply, Materials and Workmanship

3.1 The Contractor shall be responsible for the design, manufacture, provision of all materials, equipment and tools necessary to complete the Works, test products and delivery to Site. Products shall be designed, manufactured and tested in accordance with industry standards.

3.2 All materials and workmanship shall comply with relevant international standards from GB/T, ISO, IEC, UN, ECE, AWS (welding), ASTM (painting).

3.3 If material to be provided is deviated from the proposed material, sufficient information, as directed by PT PIP, shall be provided for review prior to any Works.

3.4 Materials shall be free from flaws.

3.5 Workmanship throughout shall be of the highest quality and will be constantly monitored by PT PIP or his approved Representative. If in his opinion the work, rectification work or methods used do not meet with the required standards, works shall be stopped and an acceptable solution sought. PT PIP reserves the right to have works reworked where necessary and personnel removed from site who are deemed to be unqualified for duties being carried out and/or responsible for poor unacceptable quality.

3.6 Where indicated on the design drawings, instructions, methods and procedures shall be followed without deviation.

3.7 The Contractor shall provide, for review by PT PIP, a full comprehensive test report after completing tests.

3.8 PT PIP's own engineering team shall be responsible for dismantling existing diesel generator set and housing from RTGC.

3.9 New Hybrid Power System will be installed on RTGC by PT PIP's own engineering team, with technical advisory assistance from the Contractor as necessary.

3.10 Products Testing and Commissioning

3.10.1 The Contractor must conduct Factory Acceptance Test (FAT) for Hybrid Power System and submit a full comprehensive test report to PT PIP for review.

3.10.2 Upon agreement of FAT Report by PT PIP, the Contractor can arrange delivery for Hybrid Power System to PT PIP's Sites.

3.10.3 Upon delivery at PT PIP's Sites, joint inspection of Hybrid Power System shall be conducted together with the Contractor. A Site Acceptance Test (SAT) shall be performed to verify the equipment's functionality under actual site conditions and based on the approved FAT report.

3.10.4 PT PIP's own engineering team and the Contractor shall do commissioning tests on RTGC with Hybrid Power System. Successful completion of commissioning test is required for the issuance of the Work Completion Note.

3.11 Training

The Contractor shall conduct training for PT PIP's maintenance staff. The content of the training shall include but not be limited to the following:

3.11.1 Instruction and explanation of all devices on the Hybrid Power System.

3.11.2 Instruction and training of handling operation of the Hybrid Power System.

3.11.3 Inspection and maintenance of operationally critical components for Hybrid Power System.

3.11.4 Instruction on trouble shooting and repair of Hybrid Power System.

3.11.5 Instruction on routine maintenance and preventive maintenance plan for Hybrid Power System.

3.12 The Contractor shall provide manuals on Hybrid Power System's installation, operation, service or maintenance, and parts.

3.13 Products Warranty

3.13.1 The Contractor shall provide five (5) years warranty for battery modules from the date of issue of the Work Completion Note.

3.13.2 The Contractor shall provide twelve (12) months warranty for parts/equipment such as diesel generator set and electrical devices from the date of issue of the Work Completion Note.

3.13.3 The warranty shall cover on all parts/equipment used against materials or manufacturing defects and the workmanship.

3.13.4 This guarantee shall cover the cost of repairing and replacing of any part found to be defective due to above.

3.13.5 The Contractor shall provide support which include responding to inquiries, resolving complaints, and providing technical assistance, within 24 hours of receiving request from PT PIP's authorized personnel.

3.13.6 The Contractor shall deliver spare or replacement parts to PT PIP within 3 calendar days after technical matters have been settled with PT PIP's authorized personnel.

4. Technical Requirements for RTGC Hybrid Power System

4.1 RTGCs Location and Technical Specifications

4.1.1 Four (4) units RTGC, i.e. RTG02, RTG03, RTG04 and RTG09 are located at T300 Terminal, Tanjung Priok Port, Jakarta, Indonesia.

4.1.2 Two (2) units RTGC, i.e. RTG07 and RTG08 are located at Adipurusa Terminal, Tanjung Priok Port, Jakarta, Indonesia.

4.1.5 General technical specifications and Single Line Drawing for these 6 units RTGC are shown in Appendix A.

4.2 Work Environment for RTGC

4.2.1 Hybrid Power System will be installed on RTGC that works in outdoor area near the seaside. Hence, in the design process, anti-corrosion, dust-proof, lightning-proof, anti-leakage, rainstorm-proof, and strong wind-proof should be fully considered for the products. The products should be able to withstand these adverse environment conditions during usage in its life cycle.

4.2.2 Ambient temperature is between 20 and 40 degrees Celsius.

4.2.3 Wind speed is up to 20 m/s.

4.2.4 Relative humidity is up to 85%.

4.3 Technical Requirements for RTGC Hybrid Power System

4.3.1 Small size (low power) diesel generator set - mainly used to charge the lithium battery (or other battery type). When the battery system is bypassed, this Genset provides power supply to RTGC to enable it to do hoisting slowly and move to maintenance area or parking area. Diesel generator set shall be manufactured (design, performance and testing criteria) in accordance to ISO 8528 standard.

4.3.2 Battery pack – a suitably sized energy storage battery of Lithium or other type with appropriate charge and discharge rate. Battery shall have features of high safety and long lifetime. Battery pack shall be of IP68 rating.

4.3.3 Battery Management System (BMS) - protects the battery system by monitoring its charge level, current, cell voltage, temperature, and balancing energy distribution.

4.3.4 Active Front End (AFE) Rectifier Charger - converts AC voltage and current into DC, with a pre-charging circuit.

4.3.5 Auxiliary Inverter - inverts DC into 3 phase AC and supply power to PLC, lighting and other auxiliary power supply.

4.3.6 Battery Thermal Management System (BTMS) – regulates the battery pack's temperature to ensure safety, efficiency, and longevity. BTMS removes heat generated by battery during

charging and discharging operation, by liquid cooling where a coolant is pumped through channels near the cells, carrying heat to a radiator or heat exchanger. It prevents risk like thermal runaway by maintaining the battery within its optimal temperature range.

4.3.7 Hybrid Power System's Main Control Unit – this is a PLC with HMI monitoring display. The PLC primarily handles system control, interlocking with the RTGC's main control system, fault handling, BMS data retrieval and control the start and stop of diesel generator set based on battery's SoC (State of Charge). The monitoring system tracks the charging process, displays battery charge/discharge current and voltage levels, and log faults.

4.3.8 On the console of RTGC's Operator Cabin, there is Hybrid Power System's fault/running indicator, and run/stop switch with key.

4.3.9 Fire Suppression System that complies with ISO 15779 and/or National Fire Protection Association (NFPA) standards – Battery Room shall be equipped with fire suppression system that has detection mechanism such as thermally operated units. It is activated when temperature reaches a specific activation point, flooding the protected space with aerosol fire suppression agent and quickly suppressing the fire. Upon detecting a fire by the Fire Suppression System, it will communicate with Hybrid Power System's Main Control Unit to cut off power supply and activates fire alarm and fire alarm indicator light seeable at the outside of Hybrid Power System Housing. Bidder is allowed to propose other type of fire detection and extinguishing system.

4.3.10 Remote Monitoring and Control System - Wifi/4G/5G based remote monitoring system for the Hybrid Power System which enable remote monitoring and fault diagnosis.

4.3.11 Hybrid Power System Housing – this shall be divided into two sections, one section is for diesel generator set room, and another section is for electrical room that contains battery pack and control systems.

(a) The Generator Set section shall be designed for easy access for maintenance works and dismantling of diesel generator set for overhauling.
(b) Diesel Generator Set shall have vibration isolation.
(c) Inner walls of Generator Set section shall have noise absorbing material.
(d) Engine's Exhaust shall have mufflers to ensure that the noise level does not exceed the relevant national standards.
(e) Both sides of Housing shall have walkway or maintenance platform that is no less than 600 mm width. The maintenance platform can be retractable.
(f) Housing's roof and sidewalls are of waterproof type that prevent seepage and leaking.
(g) Housing shall be equipped with Indonesia standard power sockets and LED lighting.
(h) RTGC's original engine fuel tank shall be re-used.
(i) For Electrical Room section, it shall be equipped with sufficiently sized air conditioner.
(j) The Contractor can proceed to start fabrication of Hybrid Power System Housing after general arrangement drawing has been approved by PT PIP for each RTGC.

4.3.12 Existing Load Bank will remain connected to the RTGC.

4.3.13 Bidder is required to provide Battery Pack's service life estimation in Schedule 2 - Technical Specification Response based on below assumptions.

(a) RTGC operation rate: 10 container cycles/hour
(b) Daily operation hours: 22 hours
(c) Yearly operation: 330 days
(d) Average energy consumption per container cycle: 1.8 kWh
(e) Auxiliary power demand: 56 kW

4.3.14 Bidder is allowed to propose other battery type or system design (such as with DC-DC Converter) for RTGC Hybrid Power System.

4.4 Delivery Schedule

4.4.1 Due to Container Terminals operational requirements, PT PIP requires 6 units RTGC Hybrid Power System to be delivered separately in 3 batches.

4.4.2 First batch delivery will be for T300 Terminal RTG02 and Adipurusa Terminal RTG07, on the 3rd month after commencement of the Contract. Installation and commissioning are expected to be completed on the 4th month.

4.4.3 Second batch delivery will be for T300 Terminal RTG03 and Adipurusa Terminal RTG08, on the 5th month after commencement of the Contract. Installation and commissioning are expected to be completed on the 6th month.

4.4.4 Third batch delivery will be for T300 Terminal RTG04 and RTG09, on the 7th month after commencement of the Contract. Installation and commissioning are expected to be completed on the 8th month.

4.4.5 Bidder is allowed to propose different delivery schedule for 6 units RTGC Hybrid Power System but has to abide the sequence of delivery and installation.

Appendix A

General Technical Specifications (6 Pages)
and Single Line Drawing (9 Pages)
for 6 units RTGC

Equipment No: T300 RTG02

No.	DESCRIPTION	DATA	REMARK
1	**PRINCIPAL PARTICULARS**		
	Type	RTGC	
	Manufacturer	ZPMC (China)	
	Year of Built	2004	
	Safe Working Load under Spreader	41 Tons	
	Span	23.47 m	
	Lifting Height Under Spreader	17.75 m	
	Trolley Travel Range	18.47 m	
	Wheel Base	6.9 m	
	Total No. of Wheels	8 pieces	
	Rubber Tyres Size	21.00-25 40 PR	
	Wheel Turn System	0˚, 90˚	
	Container Stacking Capacity	5 high x 6 row	
	In Service Wind Speed	Max 20 m/s	
	Out of Service Wind Speed	Max 43 m/s	
2	**SPEEDS**		
	Main Hoist Speed with Rated Load	22 m/min	
	Main Hoist Speed with Spreader only	55 m/min	
	Gantry Travel Speed with Rated Load	25 m/min	
	Gantry Travel Speed with Spreader only	90 m/min	
	Trolley Travel Speed	70 m/min	
3	**POWER SOURCE**		
	Engine: Cummins KTA19-G3	540 BHP / 1500 rpm	
	Generator: Stamford HCI 634 G2	660 kVA / 1500 rpm	
	AC Output Generator	400 VAC/50 Hz	
	AC Input Converter	400 VAC/50 Hz	
	Aux Transformer 1	400V/110V, 2 kVA	Total aux power
	Aux Transformer 2	400V/380V, 70 kVA	is 72 KVA
	DC Input Inverter	565 VDC	
4	**SPREADER**	Single Telescopic (ISO 20 ft, 40 ft)	
	Spreader Skewing Angle	± 5˚	
5	**ELECTRICAL CONTROL SYSTEM**	FUJI MICREX	
6	**AC MOTORS**		
	Main Hoist	1 x 170 kW	
	Trolley Travel	1 x 25 kW	
	Gantry Travel	4 x 25 kW	

Equipment No: T300 RTG03

No.	DESCRIPTION	DATA	REMARK
1	**PRINCIPAL PARTICULARS**		
	Type	RTGC	
	Manufacturer	ZPMC (China)	
	Year of Built	2004	
	Safe Working Load under Spreader	41 Tons	
	Span	23.47 m	
	Lifting Height Under Spreader	17.75 m	
	Trolley Travel Range	18.47 m	
	Wheel Base	6.9 m	
	Total No. of Wheels	8 pieces	
	Rubber Tyres Size	21.00-25 40 PR	
	Wheel Turn System	0˚, 90˚	
	Container Stacking Capacity	5 high x 6 row	
	In Service Wind Speed	Max 20 m/s	
	Out of Service Wind Speed	Max 43 m/s	
2	**SPEEDS**		
	Main Hoist Speed with Rated Load	22 m/min	
	Main Hoist Speed with Spreader only	55 m/min	
	Gantry Travel Speed with Rated Load	25 m/min	
	Gantry Travel Speed with Spreader only	90 m/min	
	Trolley Travel Speed	70 m/min	
3	**POWER SOURCE**		
	Engine: DETROIT 6063HK35	550 BHP / 1800 rpm	
	Generator: Stamford HCI 634 G2	820 kVA / 1800 rpm	
	AC Output Generator	480 VAC/60 Hz	
	AC Input Converter	480 VAC/60 Hz	
	AUX Transformer	480 VAC/380/220/60Hz, 70KVA	
	DC Input Inverter	700 VDC	
4	**SPREADER**	Single Telescopic (ISO 20 ft, 40 ft)	
	Spreader Skewing Angle	± 5˚	
5	**ELECTRICAL CONTROL SYSTEM**	FUJI AC CONTROL	
6	**AC MOTORS**		
	Main Hoist	1 x 170 kW	
	Trolley Travel	1 x 25 kW	
	Gantry Travel	4 x 25 kW	

Equipment No: T300 RTG04

No.	DESCRIPTION	DATA	REMARK
1	**PRINCIPAL PARTICULARS**		
	Type	RTGC	
	Manufacturer	ZPMC (China)	
	Year of Built	2004	
	Safe Working Load under Spreader	41 Tons	
	Span	23.47 m	
	Lifting Height Under Spreader	17.75 m	
	Trolley Travel Range	18.47 m	
	Wheel Base	6.9 m	
	Total No. of Wheels	8 pieces	
	Rubber Tyres Size	21.00-25 40 PR	
	Wheel Turn System	0˚, 90˚	
	Container Stacking Capacity	5 high x 6 row	
	In Service Wind Speed	Max 20 m/s	
	Out of Service Wind Speed	Max 43 m/s	
2	**SPEEDS**		
	Main Hoist Speed with Rated Load	22 m/min	
	Main Hoist Speed with Spreader only	55 m/min	
	Gantry Travel Speed with Rated Load	25 m/min	
	Gantry Travel Speed with Spreader only	90 m/min	
	Trolley Travel Speed	70 m/min	
3	**POWER SOURCE**		
	Engine: DETROIT 6063HK35	550 BHP / 1800 rpm	
	Generator: Stamford HCI 634 G2	820 kVA / 1800 rpm	
	AC Output Generator	480 VAC/60 Hz	
	AC Input Converter	480 VAC/60 Hz	
	AUX Transformer	480 VAC/380/220/60Hz ,70KVA	
	DC Input Inverter	700 VDC	
4	**SPREADER**	Single Telescopic (ISO 20 ft, 40 ft)	
	Spreader Skewing Angle	± 5˚	
5	**ELECTRICAL CONTROL SYSTEM**	FUJI AC CONTROL	
6	**AC MOTORS**		
	Main Hoist	1 x 170 kW	
	Trolley Travel	1 x 25 kW	
	Gantry Travel	4 x 25 kW	

Equipment No: T300 RTG09

No.	DESCRIPTION	DATA	REMARK
1	**PRINCIPAL PARTICULARS**		
	Type	RTGC	
	Manufacturer	TCM (JAPAN)	
	Year of Built	2008	S/N : 07F-00218
	Safe Working Load under Spreader	41 Tons	
	Span	23.47 m	
	Lifting Height Under Spreader	18.1 m	
	Trolley Travel Range	19.07 m	
	Wheel Base	6.4 m	
	Total No. of Wheels	8 pieces	
	Rubber Tyres Size	21.00-25 36 PR	
	Wheel Turn System	0˚, 90˚	
	Container Stacking Capacity	5 high x 6 row	
	In Service Wind Speed	Max 20 m/s	
	Out of Service Wind Speed	Max 43 m/s	
2	**SPEEDS**		
	Main Hoist Speed with Rated Load	23 m/min	
	Main Hoist Speed with Spreader only	54 m/min	
	Gantry Travel Speed with Rated Load	90 m/min	
	Gantry Travel Speed with Spreader only	135 m/min	
	Trolley Travel Speed	70 m/min	
3	**POWER SOURCE**		
	Engine: Cummins QSX15 - G3NR2	505 HP / 1500 rpm	S/N : 79130241
	Generator: Stamford HCI 634 H1	745 kVA / 1500 rpm	S/N : 05J390805
	AC Output Generator	460 VAC/50 Hz	
	AC Input Converter	460 VAC/50 Hz	
	AUX Transformer	460 VAC/380/220/50Hz, 60KVA	
	DC Input Inverter	640 VDC	
4	**SPREADER**	Single Telescopic (ISO 20 ft, 40 ft)	
	Spreader Skewing Angle	± 5˚	
5	**ELECTRICAL CONTROL SYSTEM**	YASKAWA-SIEMENS	
6	**AC MOTORS**		
	Main Hoist	1 x 170 kW	
	Trolley Travel	1 x 37 kW	
	Gantry Travel	2 x 45 kW	

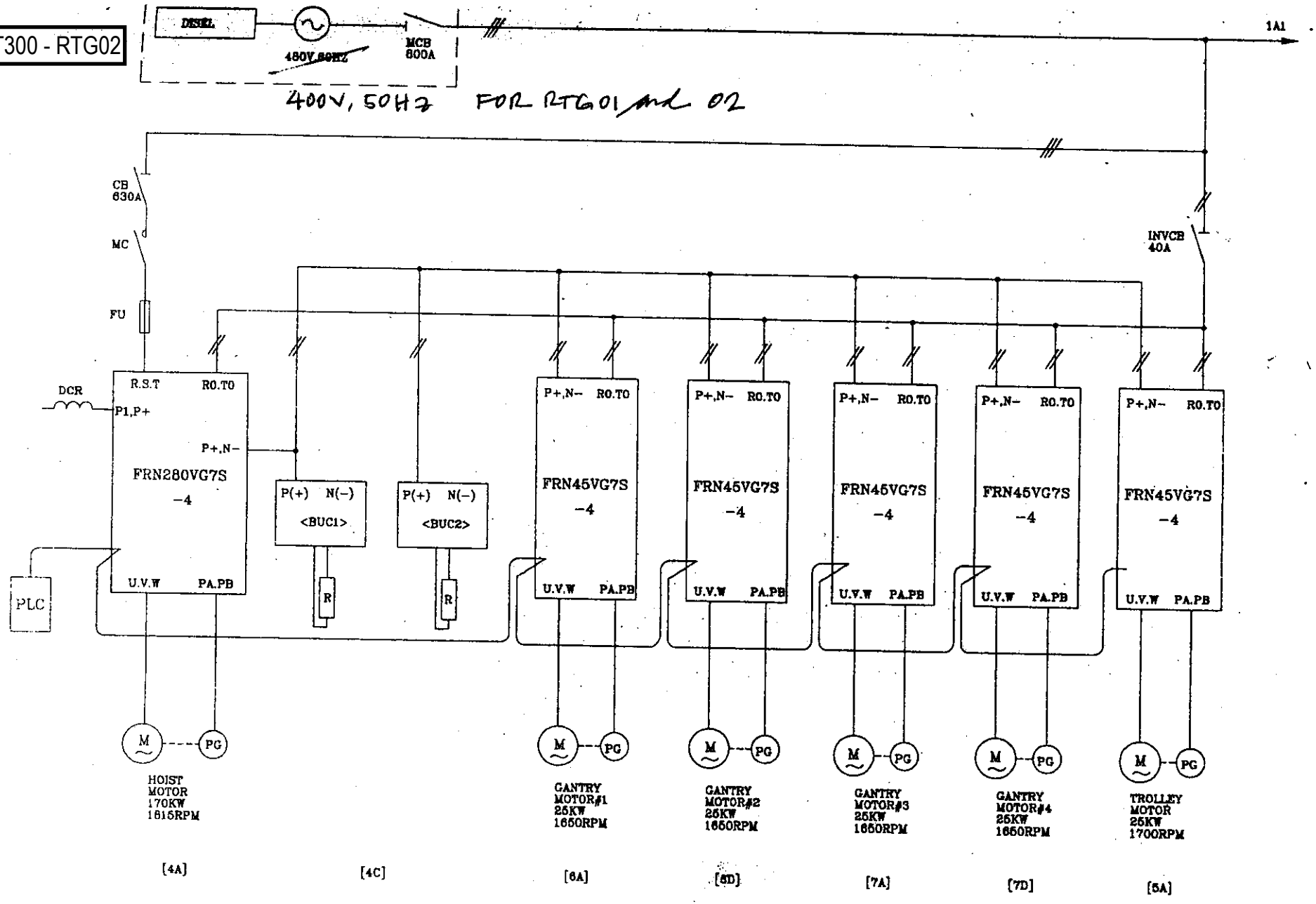
Equipment No: ADP RTG07

No.	DESCRIPTION	DATA	REMARK
1	**PRINCIPAL PARTICULARS**		
	Type	RTGC	
	Manufacturer	Hanjin Heavy Industries (Korea)	
	Year of Built	2005	
	Safe Working Load under Spreader	40.6 Tons	
	Span	23.5 m	
	Lifting Height Under Spreader	17.8 m	
	Trolley Travel Range	18.7 m	
	Wheel Base	7.5 m	
	Total No. of Wheels	8 pieces	
	Rubber Tyres Size	21.00-25 40 PR	
	Wheel Turn System	0°, 90°	
	Container Stacking Capacity	5 high x 6 row	
	In Service Wind Speed	Max 20 m/s	
	Out of Service Wind Speed	Max 43 m/s	
2	**SPEEDS**		
	Main Hoist Speed with Rated Load	25 m/min	
	Main Hoist Speed with Spreader only	50 m/min	
	Gantry Travel Speed with Rated Load	90 m/min	
	Gantry Travel Speed with Spreader only	134 m/min	
	Trolley Travel Speed	70 m/min	
3	**POWER SOURCE**		
	Engine: Cummins KTA19-G4	620 HP / 1800 rpm	
	Generator: Stamford CPC500C	500 kVA / 1800 rpm	
	AC Output Generator	460 VAC/60 Hz	
	AC Input Converter	460 VAC/60 Hz	
	AUX Transformer	460 VAC/220/60 Hz, 25KVA	Other aux power is 45kVA at 460 VAC.
	DC Input Inverter (DC Busbar)	628 VDC	
4	**SPREADER**	Single Telescopic (ISO 20 ft, 40 ft)	
	Spreader Skewing Angle	± 5°	
5	**ELECTRICAL CONTROL SYSTEM**	Siemens PLC and AC Drives	
6	**AC MOTORS**		
	Main Hoist	1 x 250 kW	850/1700 rpm
	Trolley Travel	1 x 30 kW	1750 rpm
	Gantry Travel	2 x 45 kW	1175/1750 rpm

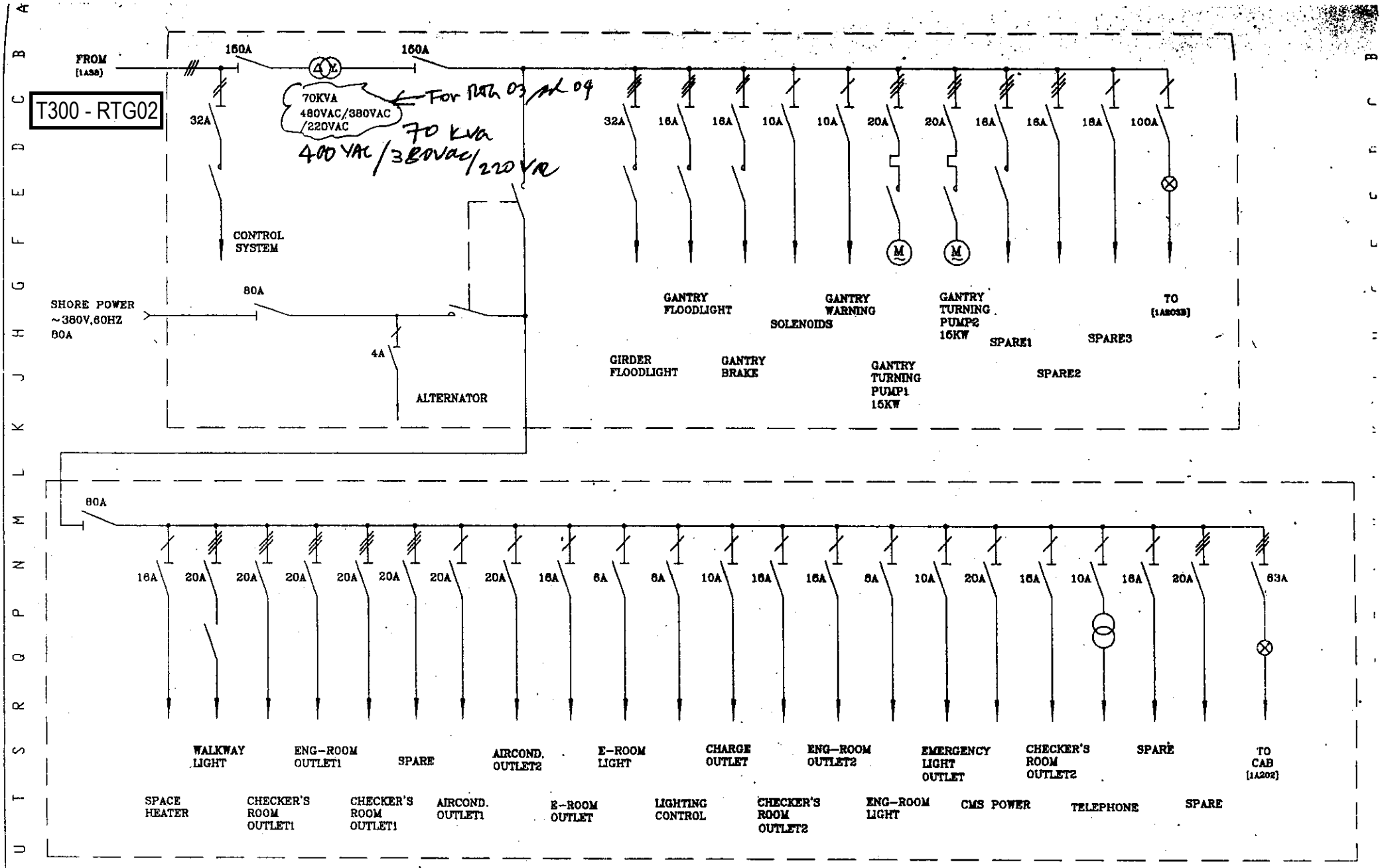
Equipment No: ADP RTG08

No.	DESCRIPTION	DATA	REMARK
1	**PRINCIPAL PARTICULARS**		
	Type	RTGC	
	Manufacturer	Hanjin Heavy Industries (Korea)	
	Year of Built	2002	
	Safe Working Load under Spreader	40.6 Tons	
	Span	23.5 m	
	Lifting Height Under Spreader	17.8 m	
	Trolley Travel Range	18.7 m	
	Wheel Base	7.5 m	
	Total No. of Wheels	8 pieces	
	Rubber Tyres Size	21.00-25 40 PR	
	Wheel Turn System	0°, 90°	
	Container Stacking Capacity	5 high x 6 row	
	In Service Wind Speed	Max 20 m/s	
	Out of Service Wind Speed	Max 43 m/s	
2	**SPEEDS**		
	Main Hoist Speed with Rated Load	25 m/min	
	Main Hoist Speed with Spreader only	50 m/min	
	Gantry Travel Speed with Rated Load	90 m/min	
	Gantry Travel Speed with Spreader only	134 m/min	
	Trolley Travel Speed	70 m/min	
3	**POWER SOURCE**		
	Engine: Cummins KTA19-G4	620 HP / 1800 rpm	
	Generator: Stamford CPC500C	500 kVA / 1800 rpm	
	AC Output Generator	460 VAC/60 Hz	
	AC Input Converter	460 VAC/60 Hz	
	AUX Transformer	460 VAC/220/60 Hz, 25KVA	Other aux power is 45kVA at 460 VAC.
	DC Input Inverter (DC Busbar)	628 VDC	
4	**SPREADER**	Single Telescopic (ISO 20 ft, 40 ft)	
	Spreader Skewing Angle	± 5°	
5	**ELECTRICAL CONTROL SYSTEM**	Siemens PLC and AC Drives	
6	**AC MOTORS**		
	Main Hoist	1 x 250 kW	850/1700 rpm
	Trolley Travel	1 x 30 kW	1750 rpm
	Gantry Travel	2 x 45 kW	1175/1750 rpm

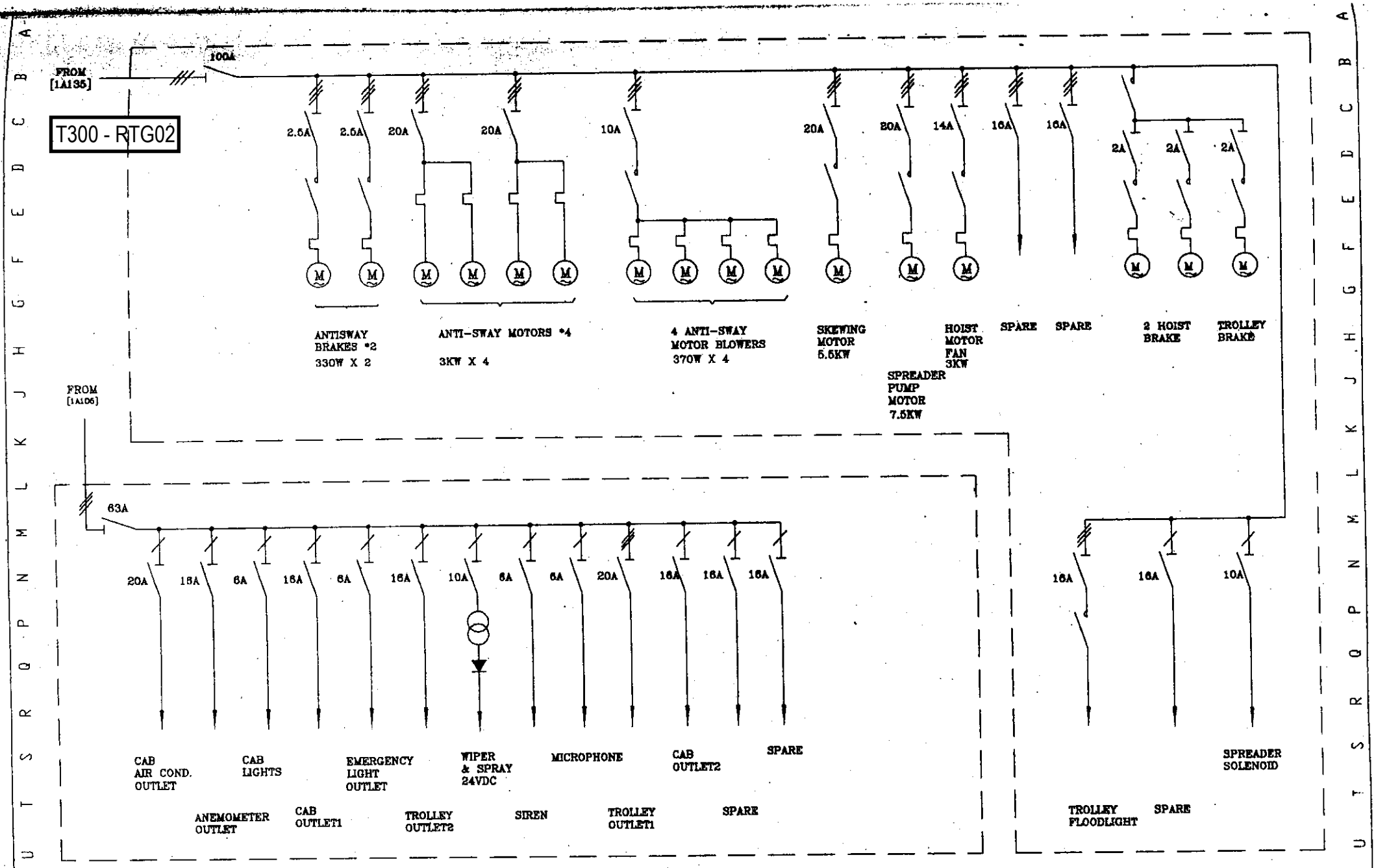
T300 - RTG02



REV.NO.	ISSUED BY:	DESIGN BY:	DRAW BY:		SYSTEM TYPE:	ELEMENTARY DIAGRAM	CONT.ON.SH.	SH.NO.
1				ZPMC	RTG FOR YICT	ONE-LINE (1)	1A1	1A

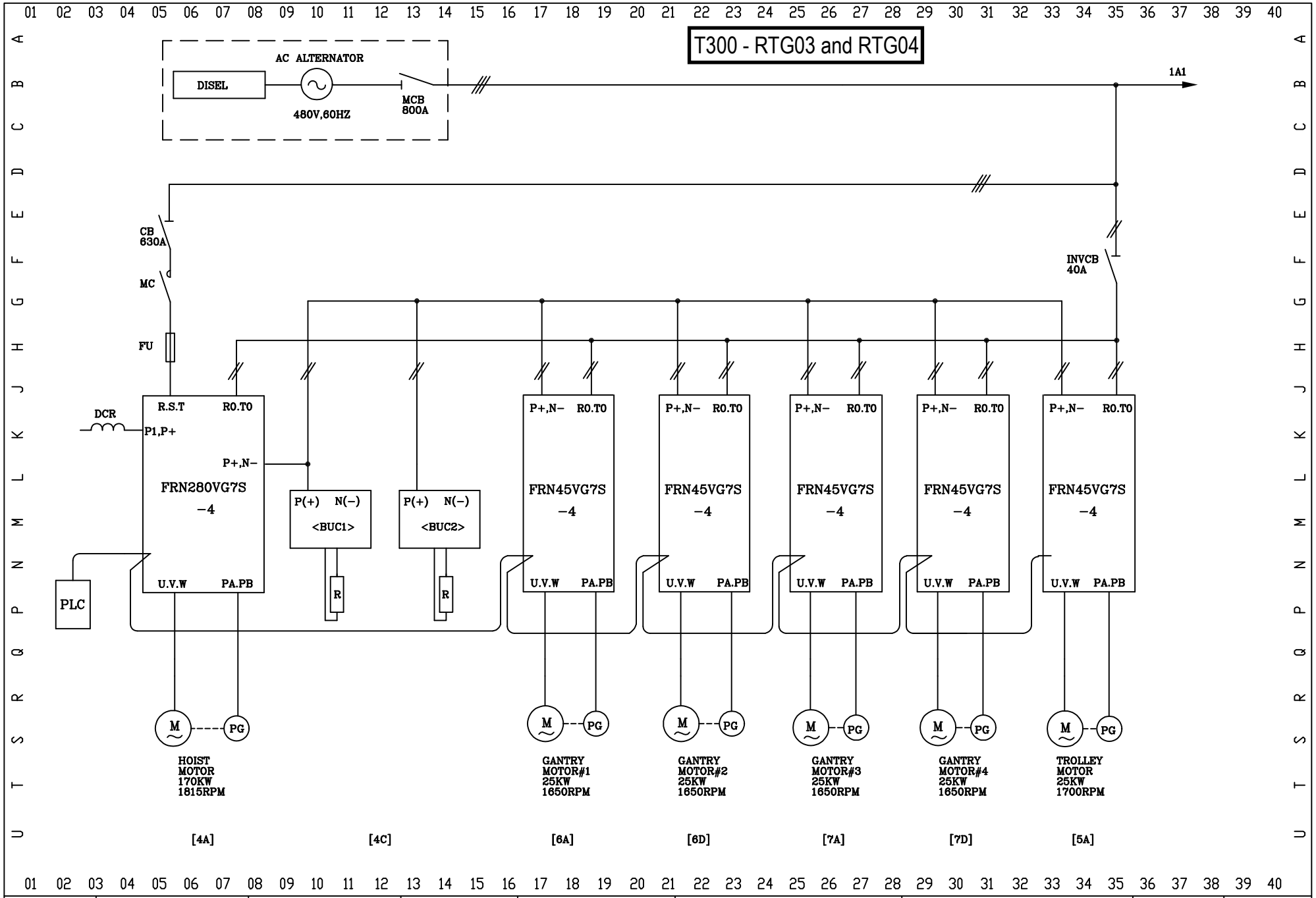


REV.NO.	ISSUED BY:	DESIGN BY:	DRAW BY:		SYSTEM TYPE:	ELEMENTARY DIAGRAM	CONT.ON.SH.	SH.NO.
1				ZPMC	RTG FOR YICT	ONE-LINE (2)	1A2	1A1



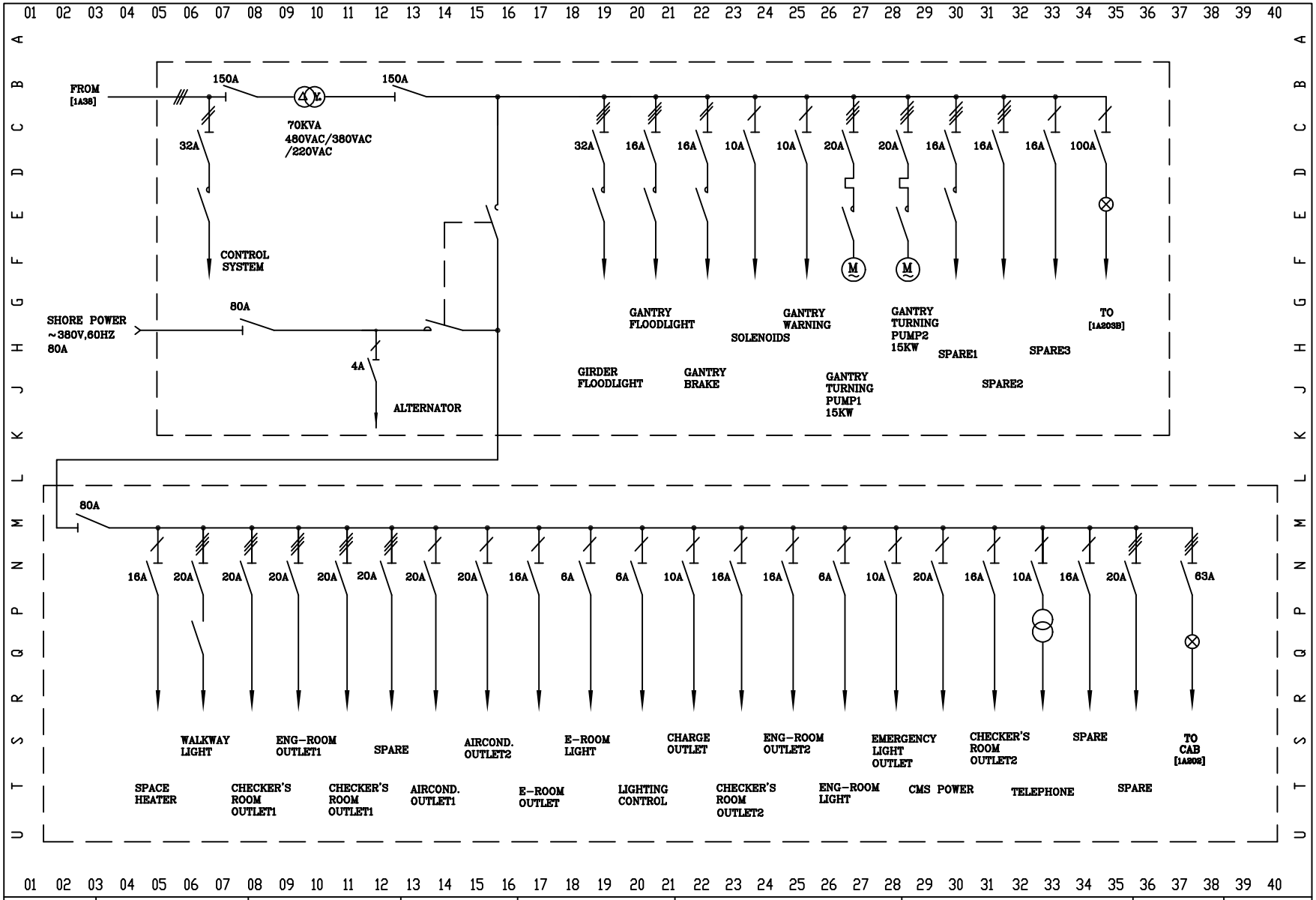
REV.NO.	ISSUED BY:	DESIGN BY:	DRAW BY:		SYSTEM TYPE:	ELEMENTARY DIAGRAM	CONT.ON.SH.	SH.NO.
1				ZPMC	RTG FOR YICT	ONE-LINE (3)	1B	1A2

T300 - RTG03 and RTG04

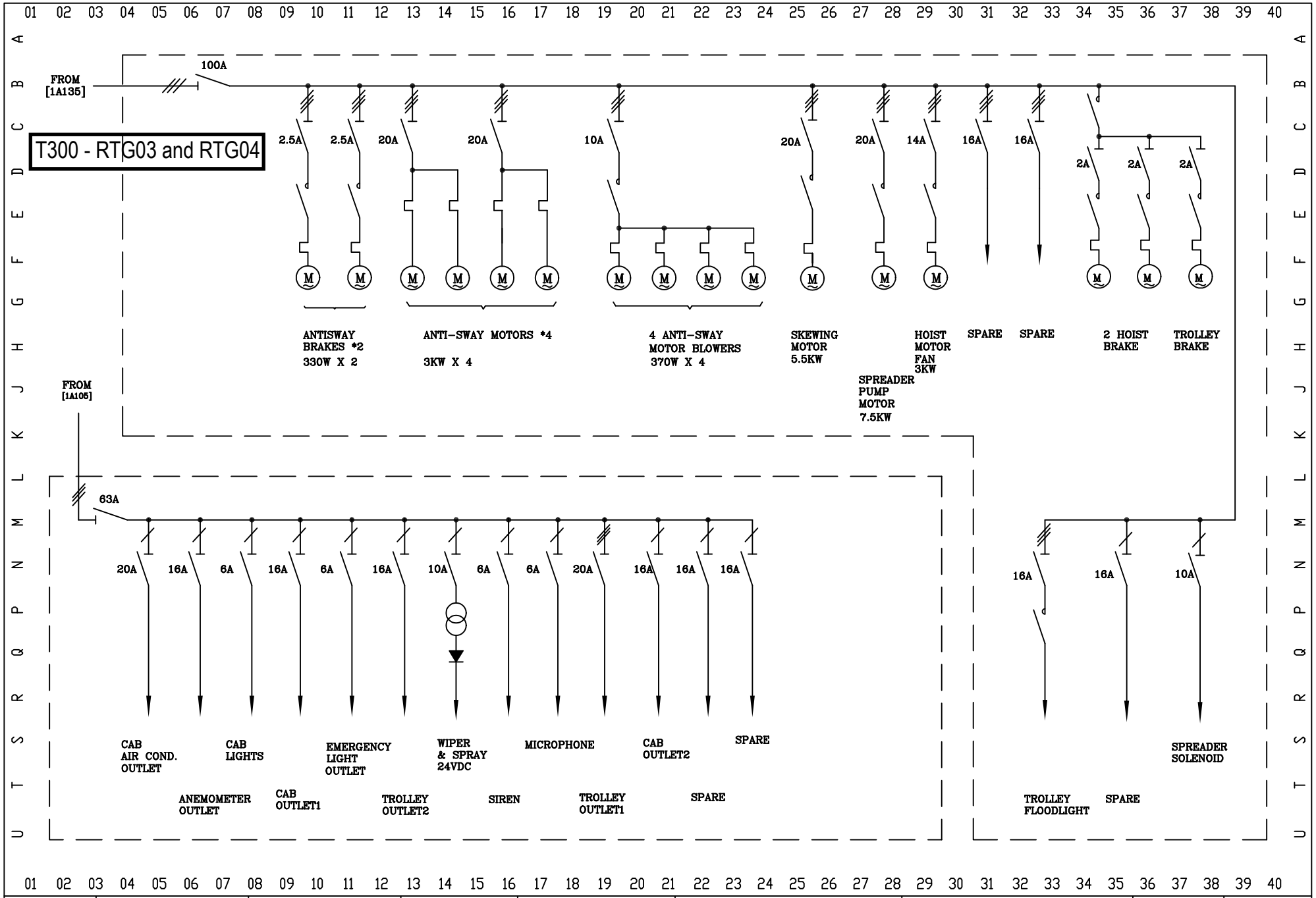


REV.NO.	ISSUED BY:	DESIGN BY:	DRAW BY:		SYSTEM TYPE:	ELEMENTARY DIAGRAM	CONT.ON.SH.	SH.NO.
1				ZPMC	RTG FOR YICT	ONE-LINE (1)	1A1	1A

T300 - RTG03 and RTG04

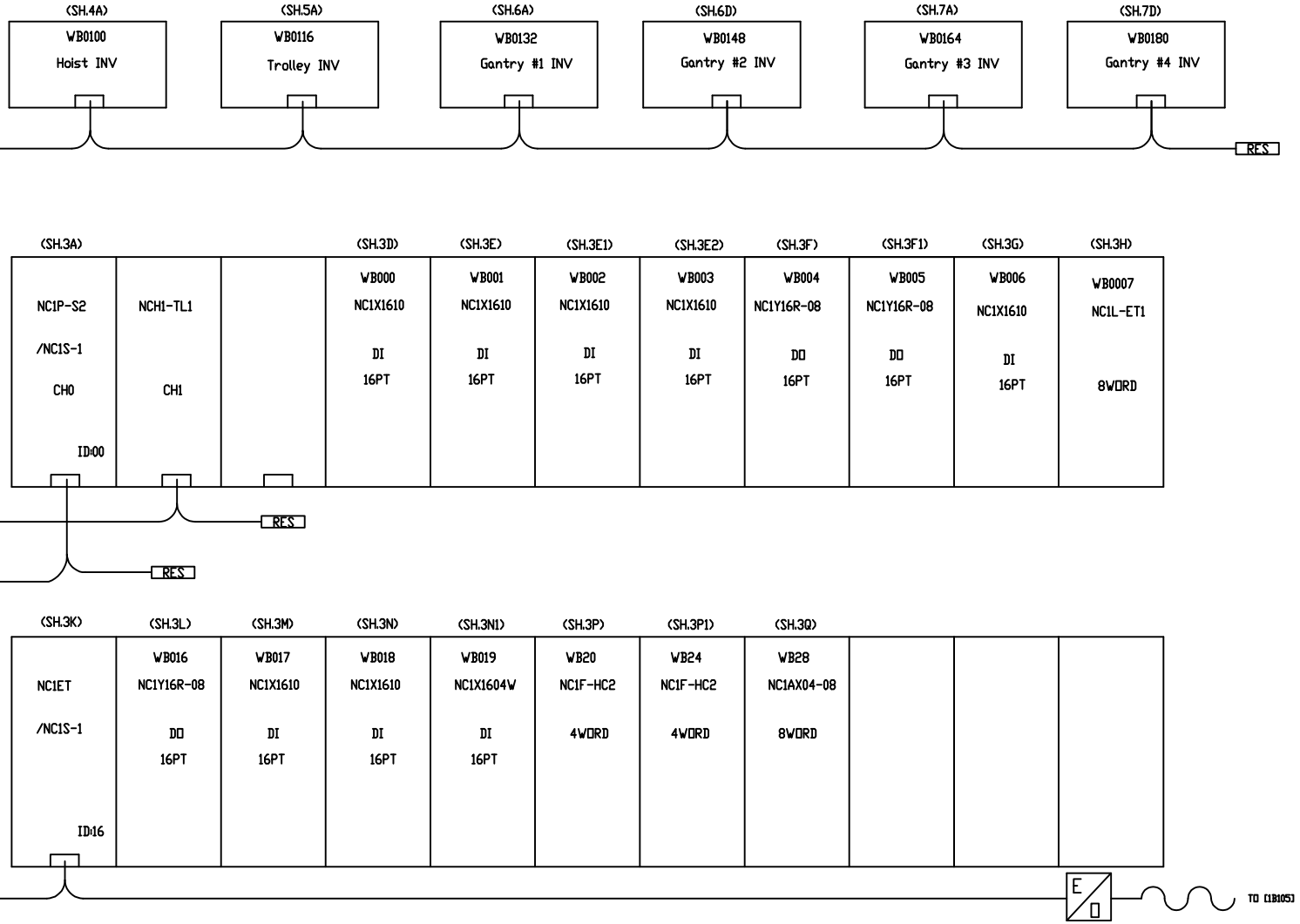


REV.NO.	ISSUED BY:	DESIGN BY:	DRAW BY:		SYSTEM TYPE:	ELEMENTARY DIAGRAM	CONT.ON.SH.	SH.NO.
1				ZPMC	**RTG FOR YICT**	ONE-LINE (2)	1A2	1A1



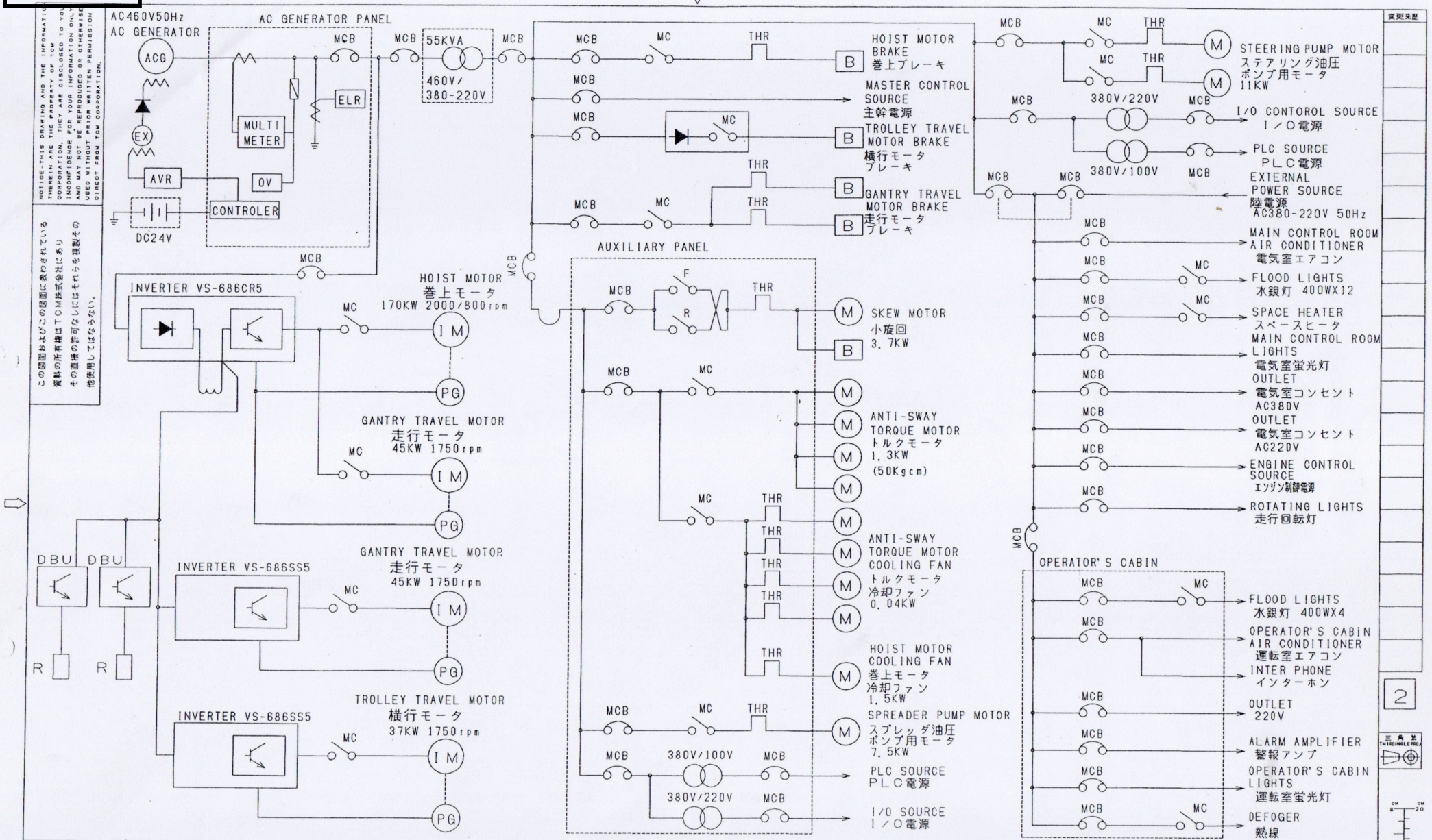
REV.NO.	ISSUED BY:	DESIGN BY:	DRAW BY:		SYSTEM TYPE:	ELEMENTARY DIAGRAM	CONT.ON.SH.	SH.NO.
1				ZPMC	**RTG FOR YICT**	ONE-LINE (3)	1B	1A2

T300 - RTG03 and RTG04



REV.NO.	ISSUED BY:	DESIGN BY:	DRAW BY:		SYSTEM TYPE:	ELEMENTARY DIAGRAM	CONT.ON.SH.	SH.NO.
0				ZPMC	RTG FOR YICT	COMMUICATION NETWORK ONE-LINE	1B1	1B

T300 - RTG09



NOTICE-THIS DRAWING AND THE INFORMATION THEREIN ARE THE PROPERTY OF TCM CORPORATION. THEY ARE DISCLOSED TO YOU IN CONFIDENCE FOR YOUR INFORMATION ONLY AND MAY NOT BE REPRODUCED OR OTHERWISE USED WITHOUT PRIOR WRITTEN PERMISSION DIRECT FROM TCM CORPORATION.

この図面およびこの図面に表わされている資料の所有権はTCM株式会社にあり その図書の許可なしにはそれらを複製その他使用してはならない。

品番 ITEM NO.	部番 PART NO.	品名 PART NAME	個数 QTY	材質 MATL	重量 WT(KG)

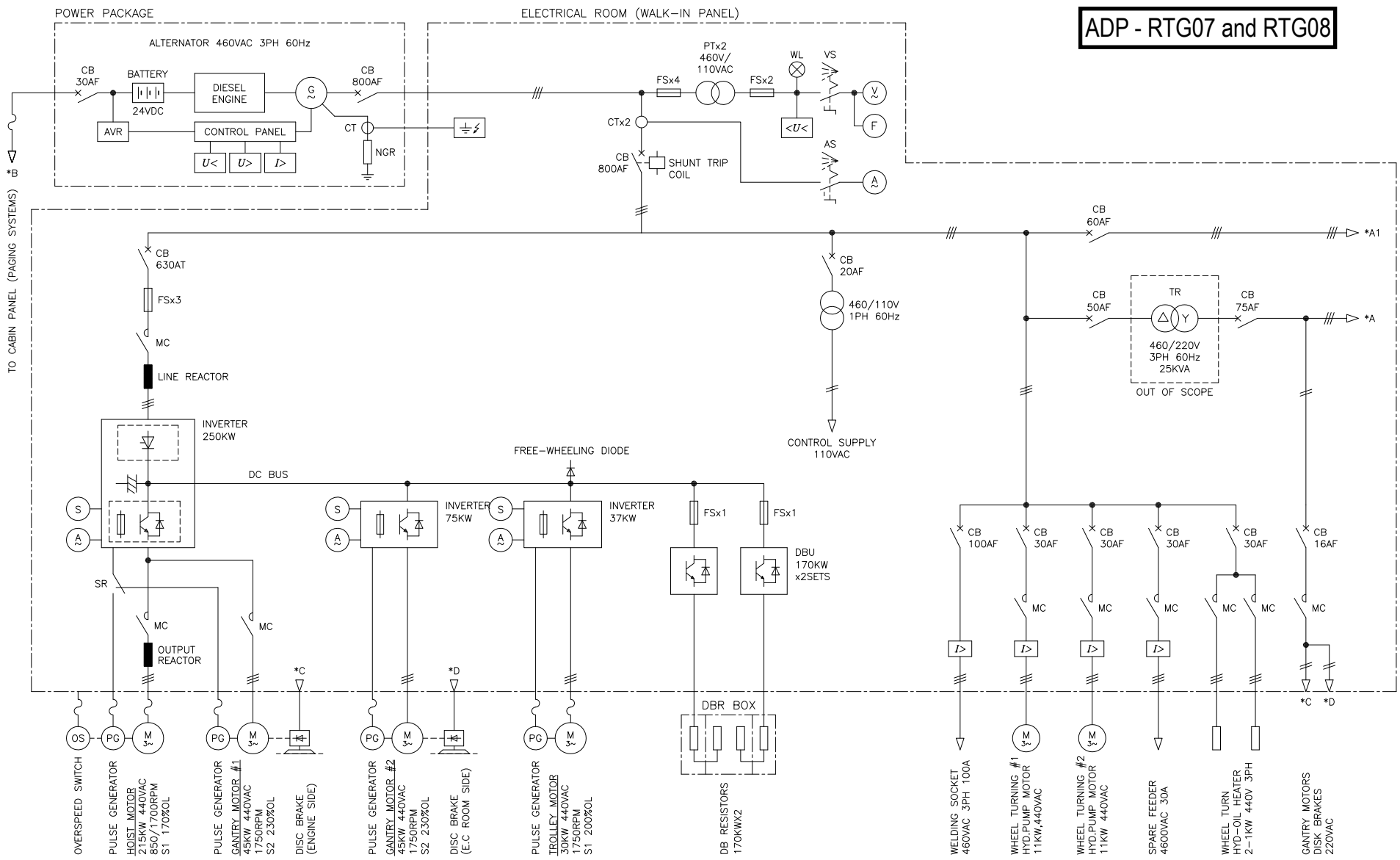
符号 CHG	変更通知番号 CN NO.	変更内容 DESCRIPTION	承認 REL

製図 DWN	村上(敏)	TCM	TCM CORPORATION
設計 DSGN	原		
検図 CHK	有川	日付 DATE 05.12.22	品名 PART NAME SINGLE LINE DIAGRAM
承認 REL	有川	材質 MATL ---	
尺度 SCL	---	重量 WT(KG) ---	単線結線図
部番 PART NO.	207F0-10381	図番 REF	

変更来歴

2

三角法 THIRD ANGLE PROJ.



5				SEOHO Electric Co.,Ltd.				HHIC HANJIN HEAVY INDUSTRIES CO.,LTD			WORK NO. P – 078
4											
3				DRAWN	DESN	REV'D	APP'D	FOR APP.	FOR CONSTR	AS BUILT	WORK NAME DONGBU 40T RTGC
2				DESIGN 4 TEAM D.H.Chung 29.AUG.2001	DESIGN 4 TEAM D.H.Chung 29.AUG.2001	DESIGN 4 TEAM B.G.Kim 30.AUG.2001					
1											

TITLE	SH. NO.
SINGLE LINE DIAGRAM (1 OF 2)	050
DRAWING NO.	CONT.SH.
10SY E 3 – 050 – 0	051

SECTION 3

ARTICLES OF AGREEMENT / CONTRACT

PT PARVI INDAH PERSADA

and

PT xxx

Contract Number

xxx/xxx/xxx

Bidding Reference Number

PIP-RFQ-1225-001

for

PROCUREMENT OF HYBRID POWER SYSTEM

FOR 6 UNITS RTGC

DD MMM YYYY

THIS AGREEMENT is entered into on [Day, Date]

BETWEEN:

1. PT Parvi Indah Persada, a limited liability company established in the Republic of Indonesia, whose registered office is situated at Jalan Kebon Bawang 1 No. 45 Tanjung Priok, Jakarta Utara 14320, Indonesia (hereinafter called the "**First Party or PT PIP**"); and
2. PT xxx, a limited liability company established in Indonesia, whose registered office is situated at xxxx (hereinafter called the "**Second Party**").

WHEREAS:

(a) The First Party operates and maintains container handling equipment at T300 Terminal and Adipurusa Terminal, Tanjung Priok Port, North Jakarta, Indonesia and intends to procure Hybrid Power System for 6 units RTGC with technical specifications as detailed herein.

(b) The Second Party is experienced contractor that is capable of design, manufacture, provision of all materials, equipment and tools necessary to supply RTGC Hybrid Power System.

(c) Whereas the First Party and the Second Party agreed to enter into a work agreement for PROCUREMENT OF HYBRID POWER SYSTEM FOR 6 UNITS RTGC at Terminal T300 and Adipurusa Terminal, Tanjung Priok Port, North Jakarta, Indonesia (hereby referred as the "Works") with the terms and conditions as agreed in this Agreement.

(d) The Second Party shall execute and complete the Works to the reasonable satisfaction of the First Party in accordance with the Agreement.

(e) The First Party shall pay to the Second Party the Contract Price, and such further sums as may be expressly provided in the Conditions of Contract.

IT IS HEREBY AGREED as follows:

1. Definitions & Interpretations

(a) The following words and expressions save where the context otherwise requires, shall have the meanings set forth opposite:

"PT PIP"	means PT Parvi Indah Persada as project owner which requests the quotation for the procurement process.
"Contractor"	means the party who has experienced in the same project and has licensed which interested to participate in PT PIP's procurement process by submitting the bidding documents.
"Purchase Order (PO)"	or "Contract" means the document of procurement order which is issued by PT PIP to the Supplier as the formal commitment of the PT PIP's procurement.
"Bidding Documents"	means documents as stipulated by PT PIP which have to be submitted by the Contractor in order to fulfil the bidding requirements.
"**Business Days**"	means a day, other than a Saturday or Sunday in which commercial banks are open for general business in Jakarta, Indonesia.

"**Site**"	T300 Terminal and Adipurusa Terminal that are located in Tanjung Priok Port, North Jakarta, Indonesia.
"**Force Majeure**"	has the meaning ascribed to it in Clause 10(a).
"**Work Completion Note**"	has the meaning ascribed to it in Clause 3(k).
"**Language Law**"	means Law of the Republic of Indonesia Number 24 of 2009 on National Flag, Language, Coat of Arms, and Anthem of Indonesia and Presidential Regulation of the Republic of Indonesia Number 63 of 2019 on the Use of Indonesian Language as the same may from time.
"**Parties**"	means the First Party and the Second Party, party means any one of them.
"**Price**"	means the price to procure RTGC Hybrid Power System.

2. Scope of Works / Supply

2.1 The Second Party shall design, manufacture, provision of all materials, equipment and tools necessary to supply Hybrid Power System for 6 units RTGC.

2.2 Four (4) units RTGC, i.e. RTG02, RTG03, RTG04 and RTG09 are located at T300 Terminal, Tanjung Priok Port, Jakarta, Indonesia.

2.3 Two (2) units RTGC, i.e. RTG07 and RTG08 are located at Adipurusa Terminal, Tanjung Priok Port, Jakarta, Indonesia.

2.4 Technical specifications of RTGC Hybrid Power System is as shown in Appendix 1.

2.5 Products Testing and Commissioning

2.5.1 The Second Party must conduct Factory Acceptance Test (FAT) for Hybrid Power System and submit a full comprehensive test report to PT PIP for review.

2.5.2 Upon agreement of FAT Report by PT PIP, the Second Party can arrange delivery for Hybrid Power System to PT PIP's Sites.

2.5.3 Upon delivery at PT PIP's Sites, joint inspection of Hybrid Power System shall be conducted together with the Second Party. A Site Acceptance Test (SAT) shall be performed to verify the equipment's functionality under actual site conditions and based on the approved FAT report.

2.5.4 PT PIP's own engineering team and the Second Party shall do commissioning tests on RTGC with Hybrid Power System. Successful completion of commissioning test is required for the issuance of the Work Completion Note.

2.6 Training

The Second Party shall conduct training for PT PIP's maintenance staff. The content of the training shall include but not be limited to the following:

2.6.1 Instruction and explanation of all devices on the Hybrid Power System.

2.6.2 Instruction and training of handling operation of the Hybrid Power System.

2.6.3 Inspection and maintenance of operationally critical components for Hybrid Power System.

2.6.4 Instruction on trouble shooting and repair of Hybrid Power System.

2.6.5 Instruction on routine maintenance and preventive maintenance plan for Hybrid Power System.

2.7 The Second Party shall provide manuals on Hybrid Power System's installation, operation, service or maintenance, and parts.

3. Responsibility

(a) The Second Party shall be responsible for the safety of all personnel employed on site pertaining to works. Safety policies of the First Party in force, shall be adhered to at all times and Second Party shall be responsible for all necessary safety equipment, clothing etc. required by the Second Party's personnel to carry out the duties associated with the Works.

(b) It is the responsibility of the Second Party to ensure the highest degree of safety is enforced during the execution of the intended works. This is required to ensure equipment and personnel safety. The First Party has the right to stop the Second Party if safety is not observed to the satisfaction of the First Party's safety rules and procedures.

(c) The Second Party shall insure all personnel employed on site to cover injuries or death arising out of the performance of the Works.

(d) The Second Party shall be responsible for managing and maintaining a safe work area at the Site at all times. Necessary precautions shall be taken by Second Party to inhibit access to the Site of equipment and/or personnel other than those associated with the Works.

(e) The Second Party shall, using all due skill, care and diligence appropriate to an expert in works of this type, carry out the Works in accordance with the Agreement.

(f) The Second Party is liable for the complete performance of all its obligations under this Agreement and is exclusively responsible for providing design, materials and workmanship to meet the requirements set out in the Agreement.

(g) The Second Party shall be responsible for the design, provision of all materials, equipment and tools necessary to complete the Works, test products and delivery to Site. Products shall be designed, manufactured and tested in accordance with industry standards.

(h) If material to be provided is deviated from the proposed material, sufficient information, as directed by the First Party, shall be provided by the Second Party for review prior to any Works.

(i) The Second Party shall ensure materials shall be free from flaws.

(j) Workmanship throughout shall be of the highest quality and will be constantly monitored by the First Party or his approved representative. If in his opinion the work, rectification work or methods used do not meet with the required standards, works shall be stopped and an acceptable solution sought. The First Party reserves the right to have works reworked where necessary and personnel removed from site who are deemed to be unqualified for duties being carried out and/or responsible for poor unacceptable quality.

(k) Where indicated on the design drawings, instructions, methods and procedures shall be followed without deviation by the Second Party.

(l) The Second Party shall provide for review by the First Party, a full comprehensive test report after completing tests.

(m) If the First Party has satisfied that the Second party had completed its Works under this Agreement, both Parties agree to sign a Work Completion Note within 1 (one) day.

4. Contract Price, Terms of Payment and Place of Delivery

(a) The Price for each of the items comprising the Works and performance of all its obligations by the Second Party in relation to this Agreement is IDR xxx inclusive of VAT, "DPU PIP Sites in North Jakarta (Incoterms 2020)" term price (referred as "Contract Price"). Total Contract Price for all the items comprising the Works therein is a lump sum and is not subject to escalation in respect of costs of goods, materials, fuel and/or services (including, without limitation, labor) or variation in rates of currency exchange or any kind of tax or for any other reason whatsoever

except as explicitly provided for in any other provision of this Agreement that provides for an increase in the Contract Price.

(b) The Second Party will be responsible for Customs Clearance during import for parts/equipment from outside Indonesia, including cost for insurance (110% of Contract Price), handling charge, container demurrage and storage demurrage and any other cost. Therefore, the Second Party must appoint their local agent in Jakarta to do Customs Clearance. PT PIP will only be responsible for paying taxes and duties.

(c) Subject to the Second Party's proper and complete performance of its Works and obligations under this Agreement, payment of the Contract Price shall be made by the First Party to the Second Party in accordance with the payment terms.

(d) The Payment Terms are:

I. 30% down payment of the Contract Price upon signing of the Contract and the receipt of Advance Payment Guarantee with 30% of the total Contract Price. The format of the Advance Payment Guarantee shall adopt the format provided by the Second Party's bank, with validity until 2 weeks after expected date for completion of commissioning test for third batch 2 units RTGC hybrid power system.

II. 15% 2nd term payment of the Contract Price upon confirmation that first batch 2 units RTGC Hybrid Power System are ready for shipment.

III. 5% 3rd term payment of the Contract Price upon completion of commissioning test for first batch 2 units RTGC Hybrid Power System, and training for PT PIP's staff.

IV. 15% 4th term payment of the Contract Price upon confirmation that second batch 2 units RTGC Hybrid Power System are ready for shipment.

V. 5% 5th term payment of the Contract Price upon completion of commissioning test for second batch 2 units RTGC Hybrid Power System.

VI. 15% 6th term payment of the Contract Price upon confirmation that third batch 2 units RTGC Hybrid Power System are ready for shipment.

VII. 5% 7th term payment of the Contract Price upon completion of commissioning test for third batch 2 units RTGC Hybrid Power System and the receipt of Warranty Bond with 5% of the total Contract Price. Warranty Bond shall adopt the format provided by the Second Party's bank, be unconditional, irrevocable, and payable on first demand, with validity until end of 5 years warranty period for battery modules of third batch 2 units RTGC Hybrid Power System.

VIII. 5% 8th term payment of the Contract Price in one year after date of Work Completion Note for first batch 2 units RTGC Hybrid Power System.

IX. 5% 9th term payment of the Contract Price in one year after date of Work Completion Note for third batch 2 units RTGC Hybrid Power System.

Payment term is within 30 days after the invoice has been received by PT PIP's Accounting.

(e) The First Party agrees to pay to the Second Party, the Contract Price by way of bank transfer to the Second Party's bank account.
(details of bank account name and number).
Beneficiary name:
Bank name:
Bank Account number:
Bank Account branch:

(f) Each Party shall bear its own taxes stipulated by any applicable laws and regulations.

(g) Place of delivery shall be at PT PIP's Sites in North Jakarta, Indonesia.

5. Time for Completion

(a) The Second Party shall commence and progress the Works with all due diligence and ensure that the Works are fully completed in compliance with the below estimated schedule.

(b) The Second Party shall deliver and complete RTGC Hybrid Power System within stipulated months in the following after the date of award of Contract.

I. First batch 2 units RTGC Hybrid Power System shall be delivered on the 3rd month after commencement of the Contract.

II. Installation and commissioning for first batch 2 units RTGC Hybrid Power System shall be completed on the 4th month.

III. Second batch 2 units RTGC Hybrid Power System shall be delivered on the 5th month after commencement of the Contract.

IV. Installation and commissioning for second batch 2 units RTGC Hybrid Power System shall be completed on the 6th month.

V. Third batch 2 units RTGC Hybrid Power System shall be delivered on the 7th month after commencement of the Contract.

VI. Installation and commissioning for third batch 2 units RTGC Hybrid Power System shall be completed on the 8th month.

6. Extension of Time for Completion

(a) Should:

i. any variation order or change;

ii. any breach of this Agreement or act of prevention of the Works on the part of the First Party;

iii. any event of force majeure referred to in Clause 10;

iv. any event not attributable to the Second Party;

which may occur to cause delay to the Works or any part thereof and be such as fairly to entitle the Second Party to an extension of time to any relevant schedule, the First Party and the Second Party shall use their best endeavors to reach a mutual agreement on a fair and equitable extension of time to the relevant schedule.

(b) The Second Party shall give notice to the First Party of his intention to claim an extension of time within 14 days after the occurrence to which the notice relates and shall thereafter provide detailed particulars supporting any claim to an extension of time within a reasonable time.

(c) If any breach of this Agreement or act of prevention on the part of the First Party entitles the Second Party to an extension of time, then within a reasonable time of receipt of written application and sufficient supporting detail and documentation from the Second Party, the First Party shall pay the Second Party in accordance with the applicable rates, but if there are no such rates and prices, or if they are not applicable, then such value shall be fair and reasonable in all circumstances.

(d) If the Second Party intends to claim any additional payment whether pursuant to or arising from breach of any clauses of these Conditions or otherwise, it shall give notice of its intention to the First Party within 14 days after the event giving rise to the claim has first arisen. The Second Party shall send to the First Party an account giving detailed particulars of the amounts claimed and the grounds upon which the claim is based. The First Party shall be entitled to include within any payment to the Second Party such an amount in respect of any claim due to the Second Party provided that the Second Party has supplied sufficient particulars to enable the First Party to determine the amount due.

(e) The Second Party shall not be entitled to claim any additional payment or other monetary compensation whatsoever for any extension of time granted in respect of delays caused by the Second Party.

7. Late Performance

(a) Liquidated damages shall be applicable at 0.25% of the Contract Price for every day of delay to the mutually agreed completion date as indicated in Clause 5, or extension thereof and shall be limited to an aggregate maximum of 10% of the Contract Price.

(b) The durations associated with suspension/delay (not caused by the Second Party), force majeure and waiting on weather shall not be taken account for calculating liquidated damages; and the completion date(s) shall be extended by the cumulative duration of these delays.

8. Warranty

(a) Battery modules of RTGC Hybrid Power System shall have 5 years warranty period from the date of issue of the Work Completion Note.

(b) Parts/equipment such as diesel generator set and electrical devices of RTGC Hybrid Power System shall have 12 months warranty period from the date of issue of the Work Completion Note.

(c) The Second Party warrants that all of the Goods (including the Spare Parts) shall be in accordance with the Specifications (including as to design, quality, performance, measurement and any other conditions stipulated in this Agreement), shall be fit for their intended purpose, shall comply with all applicable legal requirements and other regulations and shall be free from all defects in design, manufacture, materials, workmanship and operational logic.

(d) Should any Defect in any Goods appear or arise during the Warranty Period, and provided that such defect does not arise from any failure of such Goods to be appropriately maintained by the First Party, the Second Party shall, at its own expense, do all things necessary to promptly rectify the Defect and any resulting damage to other parts of the Goods forthwith (including by the repair or replacement of the defective or damaged Goods and the provision of labor to undertake the said repair and replacement).

(e) If the Second Party fails to do so within the agreed timeframe, the First Party may remedy the defect itself or through a third party and recover all related costs from the Second Party.

(f) If the Second Party redesigns, re-executes works or repairs or replaces any of the Goods, the provisions of this Clause 8 shall then apply to such redesigned, re-executed, repaired or replacement Goods, save that the Second Party's obligations under Clause 8 (a) and (b) shall apply for a period terminating 5 years or 12 months after the date when such repair or replacement was completed to the satisfaction of the First Party.

(g) The Second Party shall provide support which include responding to inquiries, resolving complaints, and providing technical assistance, within 24 hours of receiving request from the First Party's authorized personnel.

(h) The Second Party shall deliver spare or replacement parts to the First Party within 3 calendar days after technical matters have been settled with the First Party's authorized personnel.

(i) The First Party may call on the Warranty Bond if the Second Party fails to fulfil any warranty obligation, including repair or replacement of defects within the required timeframe. Calling the Bond does not limit the Purchaser's right to claim additional damages. The Bond shall only be released upon the First Party's written confirmation that all warranty obligations have been satisfactorily completed.

9. Termination

(a) If the Second Party commits any material breach of its obligations under this Agreement, the First Party may send to the Second Party an order in writing requiring a remedy of the breach. In case of delay, a delay exceeding thirty (30) days shall be considered material. If the Second Party fails to comply with such order within fifteen (15) days of the date of the written correspondence, including the failing of the Second Party to initiate corrective measures or to present an acceptable action plan to correct the defect/breach (or such other period, being not less than fifteen (15) days, as may be stipulated in the said order), the First Party may, by giving notice in writing to the Second Party, terminate this Agreement in whole or in part with immediate effect.

(b) If the Second Party becomes subject to bankruptcy, insolvency, receivership or other analogous proceedings, or where applicable, receives a judicial declaration of suspension of payments, or if an order is made or resolution is passed for winding up (other than for the purposes of amalgamation or reconstruction previously approved in writing by the First Party), or if the Second Party enters into any composition or arrangement with its creditors, the First Party may, without prejudice to any other rights it may have, and without liability, terminate forthwith this Agreement in whole or in part.

(c) The First Party may at any time, by giving notice in writing to the Second Party, terminate this Agreement in whole or in part with immediate effect, in which event the Second Party shall be entitled to reasonable termination charges consisting of a percentage of the Contract Price reflecting the percentage of the work completed prior to termination, plus actual direct costs reasonably incurred resulting from such termination (to be evidenced by proper supporting documentation), but to no other sum in respect of the costs of termination or in consequence thereof.

(d) Notwithstanding the provisions of Clauses 9(a) and 9(b), if at any time the Second Party is or has become insolvent, has a provisional liquidator appointed or a winding-up order made against it or is the subject of a similar or analogous arrangement or proceeding in any jurisdiction, the Second Party shall be deemed to be in breach of this Agreement, and the First Party may at any time thereafter, by giving notice in writing to the Second Party, terminate this Agreement in whole or in part with immediate effect without giving any prior notice. In such case the First Party shall not be required to pay any termination payment or any sum in respect of the costs of termination or in consequence thereof.

(e) Under no circumstances shall the First Party be obliged to pay any sum in respect of loss of profit, loss of contribution to overheads, loss of surplus, loss of bargain or any indirect or consequential loss in consequence of the termination for any reason of the Agreement.

10. Force Majeure

(a) If either Party (the "Affected Party") is prevented or delayed from performing any of its obligations hereunder (excluding the obligations to make payment under this Agreement) by reason of act(s) of God, war, embargo, riot, strike, lock-out, terrorism, fire, flood, government action or by any cause outside its control and which could not have been prevented by the exercise of reasonable and due care ("Force Majeure"), the Affected Party shall, as soon as possible, and in any event no later than 7 days of the occurrence of the relevant event(s) of force majeure, give verbal and written notice to the other party, stating the circumstances and providing all available evidence (to be followed by such other evidence as may reasonably be requested by that other party) and specifying the period for which it is estimated that the affected party's performance of this agreement shall be delayed or prevented. The other party may at its sole discretion, without any liability, offer terms upon which the time for performing

this agreement or any part thereof shall be extended by a period equivalent to that during which such performance has been prevented by any of the events of force majeure.

(b) Without affecting the provisions in the preceding Clause 10(a), if any event(s) of force majeure occurs, the parties shall first use their best endeavors to rectify any failure, loss or delay as soon as possible, and until such time as the same is rectified, the parties shall each comply with such fallback procedures as they may agree from time to time.

(c) The Affected Party shall not be deemed to be in breach of the Agreement or be liable to the other party for any damages, costs or losses (whether direct, indirect, or consequential) suffered by the other party as a result of the affected Party being prevented or delayed from performing any of its obligations hereunder (except the obligation to make payment under this Agreement) by reason of force majeure.

11. Notices

Any notices to be given hereunder shall be given by personal delivery, registered post, email or facsimile to the address or facsimile number of the recipient set out in this agreement or such other address or facsimile number as such party may have notified to the other for this purpose. Any notices sent by post shall be deemed in the absence of evidence of earlier receipt to have been delivered five days after dispatch and in proving the fact of dispatch it shall be sufficient to show the envelope containing such notice was properly addressed, stamped and posted. Any notice delivered personally or sent by cable, email or facsimile shall be deemed to have been delivered on the day of its dispatch provided such day is a business day in the place of its receipt.

12. Confidentiality

Any or all information (whether in oral or written form) given by one Party to the other shall be treated as strictly confidential by the receiving party and shall not be divulged or disclosed to any third party except strictly as required in the course of performance of its obligations under this Agreement.

13. Dispute Settlement

This agreement including clause on dispute settlement shall be governed by construed in accordance with the laws of the Republic of Indonesia. The parties agree that they shall use reasonable endeavors to amicably settle disputes arising out of or in connection with the agreement between them.

Any dispute which cannot be settled amicably within thirty (30) days shall be finally settled by arbitration in Jakarta in accordance with the Rules of the Indonesian National Board of Arbitration (BANI) by one or more arbitrators appointed in accordance with the said Rules. The arbitral award shall be final and binding upon the Parties.

14. Language

(a) In compliance with the Language Law, this agreement is entered into in the English language and each Party confirms that it has read and fully understood the contents and consequences of this agreement.

(b) The Parties agree and undertake that each party will not (and will not allow or assist any other party to) in any manner or forum in any jurisdiction, challenge the validity of, or raise or file any objection to this Agreement; defend its non-performance or breach of its obligations under this Agreement; or allege that this Agreement does not constitute its legal, valid and binding obligation, enforceable against it in accordance with its terms, on the basis of any failure to comply with the Language Law.

15. Governing Law and Jurisdiction

This Agreement shall be governed by and construed in accordance with the laws of the Republic of Indonesia.

This Agreement is made in 2 original copies.

IN WITNESS whereof this Agreement has been executed the day and year first above written.

SIGNED by The First Party)

)

for and on behalf of)

PT Parvi Indah Persada)

_____

xxxxxxxx

xxx

SIGNED by)

)

for and on behalf of)

PT xxx)

_____

xxx

xxx

SECTION 4

BIDS EVALUATION METHOD

The evaluation should begin immediately by PT PIP's Bidding Evaluation Committee after opening of bidding documents. Comprehensive Scoring Method will be used to determine the Bidder to be awarded with the Contract.

I. Preliminary Examination

Formal evaluation criteria:

1. Bidding documents are put in a sealed envelope which is chopped by company's stamp.
2. Bidder name is consistent with the name in the business license document.
3. All sections in the bidding documents have been signed by authorized personnel and chopped with company's stamp.

Credit and Performance Criteria:

1. Bidder is not subject to any order to cease operations, property takeover, freezing, or bankruptcy and maintain a good social reputation and performance capability, and is capable of providing high-quality, reliable service as evidenced by signing the letter of commitment.
2. Within the past three years (counting backward from the date of the bidding announcement), the Bidder has not experienced any of the following: being listed as a disqualified supplier by government authorities, penalized by judicial bodies, involved in contract disputes with PT PIP, or subjected to claims.

Bids from eligible and qualified Bidders that have passed the preliminary examination will proceed to the detailed technical evaluation stage.

II. Specific Evaluation

The specific evaluation method is using comparative scoring of rated criteria.

Criteria and Weightings:
The final weighting for specific evaluation of bids for this project is **45% for technical specifications, 45% for price, and 10% for delivery schedule**. Steps for specific evaluation are as follows:

First: Weighting of Technical Specifications Score

The technical specification score assigned to each bid in the evaluated bid formula will be determined by first weighting the technical specification scores assigned by each member of the Evaluation Committee to each rated criteria. These scores shall then be summed together to give the overall score.

Technical Specification are scored according to how well each bid meets the technical specification requirements outlined in the Bidding Documents, with weighting for each rated criteria as outlined below:

Rated Criteria	Weighting
RTGC Hybrid Power System's overall design	30%
Battery Pack's service life estimation	30%
Compliance for Warranty for Parts/Equipment	40%

The Score is between 0 – 100, where:
0 = means that the feature is absent; no relevant information to demonstrate how the requirement is met.
1-60 = for the feature being present but showing deficiencies such as insufficient information or information that lacks clarity.

61-80 = for meeting the requirements; sufficient information to demonstrate how the requirement will be met.
81-90 = for marginally exceeding the requirements; sufficient information to demonstrate that the requirement will be marginally exceeded; and
91-100 = for significantly exceeding the requirements; sufficient information that significantly exceed the requirements and/or contributes to significant value addition.

When the Evaluation Committee has agreed the score to be allocated to each rated criteria, the scores for each bid are multiplied by the weighting allocated to those rated criteria, and these scores are totaled to calculate the total weighted technical specification score for that bid.

Technical Specification Weighting Scoring Table:

Rated Criteria	Weighting	Score	Weighted Score *Weighting x Score*
RTGC Hybrid Power System's overall design	30%		
Battery Pack's service life estimation	30%		
Compliance for Warranty for Parts/Equipment	40%		
Total Weighted Technical Specification Score			

Technical Specification Score Matrix:

Bidder Name	Total Weighted Technical Specification Score	Final Weighted Technical Spec Score *Total Weighted Technical Spec Score x 45%*

Second: Weighting of Price Score

Price comparison uses the Evaluated Price that is derived from "III. Price Schedule and Delivery Schedule" in the Bidding Documents (Schedule 2).

The Evaluated Price = Price exclusive of value-added tax for materials and services + Import customs duty (if applicable) + Import income tax (if applicable)

The evaluated price for each bid is compared with the lowest evaluated price to determine the final weighted price score for each Bidder.

$$\frac{Lowest\ Evaluated\ Price}{Bidder's\ Evaluated\ Price}\ x\ Specific\ \ Weighting\ (45\%)\ x\ 100$$

Price Score Matrix:

Bidder Name	Bid Price	Comparative Price Score *Lowest Evaluated Price / Bidder's Evaluated Price*	Final Weighted Price Score *Comparative Price Score x 45% x 100*

Third: Weighting of Delivery Schedule Score

Score will be 0 if the delivery schedule is not acceptable (exceed 10 months).

The Evaluation Committee will evaluate the delivery schedule criteria as below:

$$\frac{Shortest\ Delivery\ Schedule}{Bidder's\ Delivery\ Schedule}\ x\ Specific\ \ Weighting\ (10\%)\ x\ 100$$

Delivery Schedule Score Matrix:

Bidder Name	Delivery Schedule (months)	Comparative Delivery Schedule Score *Shortest Delivery Schedule / Bidder's Delivery Schedule*	Final Weighted Delivery Schedule Score *Comparative Delivery Schedule Score x 10% x 100*

Fourth: Final Combined Score

The determination as to which Bidder is recommended for award of contract is made by adding the final weighted technical specification score, final weighted price score and final weighted delivery schedule score.

Bidder Name	Final Weighted Technical Specification Score	Final Weighted Price Score	Final Weighted Delivery Schedule Score	Final Combined Score

The Bidder with the highest final combined score is the one recommended for award of contract.

PT PARVI INDAH PERSADA

BIDDING DOCUMENTS (SCHEDULE 2)

PROCUREMENT OF HYBRID POWER SYSTEM FOR 6 UNITS RTGC

Bidding Reference Number: PIP-RFQ-1225-001

PT PARVI INDAH PERSADA
Jl. Kebon Bawang I No. 45 RT 007 RW 007, Kebon Bawang Tanjung Priok
Jakarta Utara, DKI Jakarta, Indonesia 14320

BIDDING DOCUMENTS

CONTENTS

I. Bidding Letter

We, _____(Bidding Participant Name):

1. have carefully studied all contents of the Bidding Documents for **Procurement of Hybrid Power System for 6 units RTGC** ("Project") and are willing to submit a bidding quotation of IDR / _____ (if in other currency) ..... (in words .....) inclusive of applicable VAT, if any, and fulfill obligations in accordance with the Contract.
2. have submitted bidding documents comprise of the following:
    a) Bidding Letter;
    b) General Terms and Conditions of Quotation;
    c) Price Schedule and Delivery Schedule;
    d) Bidder's Qualification Documents;
    e) Technical Specification Response.
    f) Draft Contract Response

    In the event of any inconsistency among the aforementioned documents of the bidding documents, the bidding letter shall prevail and be controlling.
3. undertake not to withdraw the bidding documents.
4. should we be awarded the Project, undertake that:
    (1) Upon receipt of the Award Notice, we will execute the Project within the timeframe stipulated in the Contract or Purchase Order;
    (2) We will not impose any additional conditions upon execution of the Project;
    (3) Complete all obligations specified in the Contract.
5. hereby declare that the submitted bidding documents and supporting documents are complete, truthful, and accurate.

Company Name: _____

[Bidder Name & position/role & company stamp]
Date :_____

II. GENERAL TERMS AND CONDITIONS OF QUOTATION

Syarat & Ketentuan Umum Penawaran
General Terms & Conditions of Quotation

	DEFINISI Istilah "PT PIP" berarti PT Parvi Indah Persada yang melakukan permintaan penawaran untuk proses pengadaan.	*DEFINITIONS* *The term "PT PIP" means PT Parvi Indah Persada which request the quotation for the procurement process.*
	Istilah "Penawar" berarti pihak yang memiliki minat mengikuti pelaksanaan proses pengadaan PT PIP dengan menyampaikan dokumen penawaran.	*The term "Bidder" means the party which has the interest to participate in PT PIP's procurement process by submitting the bidding documents.*
	Istilah "*Purchase Order (PO)*/Kontrak" adalah dokumen pesanan pengadaan PT PIP yang diterbitkan oleh PT PIP kepada Penawar sebagai komitmen resmi untuk pengadaan PT PIP.	*The term "Purchase Order (PO)/ Contract means the document of procurement order which is issued by PT PIP to the Bidder as the formal commitment of the PT PIP's procurement.*
	Istilah "Dokumen Penawaran" adalah dokumen-dokumen yang ditentukan oleh PT PIP untuk disampaikan oleh Penawar guna memenuhi persyaratan penyampaian penawaran.	*The term "Bidding Documents" is documents as stipulated by PT PIP which have to be submitted by the Bidder in order to fulfill the bidding requirements.*
A	Penawar diharuskan membaca dan memahami persyaratan teknis, sebelum memasukkan dokumen penawaran dan harus sudah sesuai dengan persyaratan-persyaratan yang ditetapkan oleh PT PIP.	*Bidder is required to read and understand the technical requirements prior to submission of the bidding documents and shall comply with the requirements determined by PT PIP.*
B	Masa berlaku minimal penawaran adalah berlaku selama 30 (tiga puluh) hari kalender.	*The minimum validity period for offer term is 30 (thirty) calendar days.*
C	Penawaran yang dikirimkan setelah melewati waktu yang ditentukan dianggap batal, kecuali ada kebijakan lain dari PT PIP.	*Any quotation submitted after the deadline shall be considered void, unless there are other policies from PT PIP.*
D	Penawar bertanggung penuh atas penawaran yang dibuat untuk PT PIP.	*Bidder is fully responsible for bids that are prepared to PT PIP.*
E	Penawar wajib mengganti rugi dan membebaskan PT PIP dari dan terhadap semua tuntutan, gugatan, ganti rugi, kerugian atau pengeluaran yang diderita atau ditanggung PT PIP sebagai akibat dari pelanggaran yang material dari ketentuan-ketentuan umum penawaran ini oleh Penawar dan dari setiap tindakan atau kelalaian Penawar.	*Bidder shall be liable for and will hold harmless PT PIP from and against all claims, suits, damages, losses or expenditure suffered or incurred by PT PIP resulting from any bidder's material default of this general terms and conditions of quotation and from any actions or omission of Bidder.*

F	Penawar wajib mematuhi ketentuan PT PIP yang berlaku termasuk tetapi tidak terbatas, pada proses pengadaan PT PIP terhadap Dokumen Penawaran Penawar yang dikirimkan, dan PT PIP berhak untuk menetapkan kebijakannya dan/atau keputusan dari setiap Dokumen Penawaran Penawar yang telah diterima bagi pelaksanaan proses pengadaan di PT PIP.	*Bidder shall comply with the applicable policy in PT PIP including but not limited to the procurement process of PT PIP for the Bidder's Bidding Documents which has been delivered, and PT PIP is entitled to determine its policy and/or decision for every Bidder's Bidding Documents which has been received for the implementation of procurement process at PT PIP.*
G	Keterlambatan dalam pengiriman maka Penawar akan dikenakan pinalti sebesar 0,25% per hari maksimum 10% dari nilai barang/jasa yang terlambat atau sesuai dengan kesepakatan dalam P*urchase Order (PO)*/Kontrak.	*Any delay on delivery, the Bidder shall be charged with penalty in amount of 0.25% per day up to 10% of the value of the delayed goods/services or as agreed in the Purchase Order (PO)/Contract.*
H	Secara umum, PT PIP tidak menyediakan pembayaran uang muka apapun sebelum Kontrak ditandatangani. Pembayaran baru dibayarkan dan dapat ditagihkan setelah mencapai tingkat penyelesaian tertentu.	*In general, PT PIP shall not provide any advance payment before signing the Contract. The payment can only be made and can be billed once the work reaches a certain milestone.*
I	Pembayaran akan dilakukan, sesuai dengan tahapan ketentuan pembayaran yang tertera di Kontrak, dalam 30 hari setelah tagihan yang valid diterima oleh A*ccounting* PT PIP.	*Payment shall be made, in accordance with the milestone payment terms specified in the Contract, within 30 days after receiving valid invoice by PT PIP's Accounting.*
J	PT PIP tidak memiliki kewajiban untuk menunjuk Penawar terendah sebagai pemenang proyek.	*PT PIP does not have any obligation to appoint the lowest Bidder as the winner of the project.*
K	Harga yang ditawarkan sifatnya adalah mengikat, dan tidak akan ada permintaan kenaikan harga selama masa pelaksanaan kerja/masa Kontrak, kecuali pekerjaan tambahan disetujui oleh Manajer Proyek PT PIP.	*The price offered is binding in nature, and there shall be no demand for price increases during the execution of work / life of the Contract, unless variation order is agreed by PT PIP's Project Manager.*
L	Harga yang ditawarkan sudah termasuk biaya pengiriman, biaya lain-lain yang mungkin timbul, dan biaya ganti kerugian ke PT PIP untuk semua kerusakan, biaya dan klaim yang dihasilkan dari kelalaian, atau tindakan atau kelalaian dari pihak pemasok, atau pihak ketiga yang dipekerjakan oleh pemasok.	*The offer price includes shipping costs, other costs that may arise, and the cost of compensation (indemnify) to PT PIP for all damages, costs and claims resulting from negligence, or any act or omission on the part of supplier or third parties hired by the supplier.*
M	Penawar bersedia untuk mengikuti seluruh peraturan/prosedur PT PIP termasuk namun tidak terbatas kepada peraturan/prosedur keselamatan dan keamanan yang disyaratkan oleh PT PIP.	*Bidder hereby agrees to comply will all the applicable PT PIP's rules/procedures including but not limited to the safety and security rules/procedures as required by PT PIP.*

N	Dengan mengirimkan penawaran maka Penawar dianggap bersedia untuk mematuhi syarat & ketentuan umum penawaran ini.	*By submitting the quotation, the Bidder is considered accepting to comply to this general terms and conditions of quotation.*
O	PT PIP berhak menolak penawaran Penawar yang tidak bersedia untuk mematuhi syarat & ketentuan umum penawaran ini.	*PT PIP is entitled to reject any quotation from Bidder who do not agree to comply to this general terms & conditions of quotation.*
P	Syarat & ketentuan umum penawaran ini dibuat dalam Bahasa Inggris dan Bahasa Indonesia. Apabila terdapat perbedaaan penafsiran antara Bahasa Inggris dan Bahasa Indonesia, Bahasa Indonesia yang akan berlaku dan menguasai dalam segala hal.	*This general terms & conditions of quotation is made in English and Indonesia languages. In the event of any difference of interpretation between the English and the Indonesia languages, the Indonesia language shall prevail and be controlling.*

_____ December 2025

Diketahui dan disetujui oleh, / *Acknowledged and agreed by,*

Nama Perusahaan / *Company's Name*: .....

Nama / *Name*: .....

Jabatan / Role Position: .....

Tanda Tangan / *Signature*: .....

Cap Perusahaan */ Company Chop*: .....

III. Price Schedule and Delivery Schedule

SCOPE OF WORKS AND PRICES
PROCUREMENT OF HYBRID POWER SYSTEM FOR 6 UNITS RTGC

No.	Scope	Qty	Unit Cost (IDR / _____)*	Sub Total Cost (IDR / _____)*	Note
1	Hybrid Power System for 6 units RTGC	1 Lot			Please quote using "DPU PIP Sites in North Jakarta (Incoterms 2020)" term price**, in this row.
Sub Total Materials & Services					
VAT					VAT row is applicable for Indonesia company only.
Grand Total					
Estimated import duty and taxes amount:					
- Import Duty					
- Taxes (Import VAT)					
- Taxes (Import Income Tax)					

Company's Name: .....

[Bidder Name & position/role & company's stamp]
Date :_____

* *Please specify the currency, if it is not in IDR.*
** *Contractor will be responsible for Customs Clearance during import for parts/equipment from outside Indonesia, including cost for insurance (110% of Contract Price), handling charge, container demurrage and storage demurrage and any other cost. Therefore, Contractor must appoint their local agent in Jakarta to do Customs Clearance. PT PIP will only be responsible for paying taxes and duties.*

----Continue to next page for Delivery Schedule -----

DELIVERY SCHEDULE

Please tick either one (1) box in the below for parts/equipment delivery schedule:

☐ Supply and Commission Hybrid Power System for 6 units RTGC within 8 months after the date of award of Contract.

☐ Propose alternative schedule for Supply and Commission Hybrid Power System for 6 units RTGC, which is within _____ months after the date of award of Contract. Longest delivery schedule cannot exceed 10 months.

Company's Name: .....

[Bidder Name & position/role & company's stamp]
Date :_____

IV. Bidder's Qualification Documents

1. Basic Information Form
2. Work Experience List
3. Letter of Commitment

(1) Basic Information Form

<table>
<tr><td>Bidder Name</td><td colspan="4"></td></tr>
<tr><td>Business License Number *)</td><td colspan="2"></td><td>Date of Establishment</td><td></td></tr>
<tr><td>Registered Address</td><td colspan="4"></td></tr>
<tr><td>Postal Code</td><td colspan="2"></td><td>Total Number of Employees</td><td></td></tr>
<tr><td rowspan="2">Contact Information</td><td>Contact Person</td><td></td><td>Telephone</td><td></td></tr>
<tr><td>Website</td><td></td><td>Fax</td><td></td></tr>
<tr><td>Legal Representative (Unit Head)</td><td>Name</td><td></td><td>Telephone</td><td></td></tr>
<tr><td>Bidder’s Qualification Certificates</td><td colspan="4">Type: Grade: Certificate Number:</td></tr>
<tr><td colspan="5">Bank Account Details:</td></tr>
<tr><td>Bank Name</td><td colspan="4"></td></tr>
<tr><td>Bank Account No.</td><td colspan="4"></td></tr>
</table>

Note:
Please attach the scanned copy of the original Business License document, copy of bank book for the page which include account name and number.

Company’s Name: .....

[Bidder Name & position/role & company’s stamp]
Date :_____

(2) Work Experience List (In the Last 5 Years)

No.	Project Name	Contracting Party A	Name of Contracted Goods/Services	Contract Amount	Completion Date	Contact Information of Party A
1						
2						
3						
4						
5						

Note: The Bidder shall attach relevant supporting documents following this table.

Company's Name: .....

[Bidder Name & position/role & company's stamp]
Date: _____

(3) Letter of Commitment

To: PT Parvi Indah Persada ("PT PIP")

Hereby we declare that our company:

1. is not subject to any order to cease operations, property takeover, freezing, or bankruptcy; we maintain a good social reputation and performance capability, and is capable of providing high-quality, reliable service;
2. within the past three years (counting backward from the date of the bidding announcement), have not experienced any of the following: being listed as a disqualified supplier by government authorities, penalized by judicial bodies, involved in contract disputes with the PT PIP, or subjected to claims;
3. will not participate in this bidding as a consortium;
4. undertake that if we are awarded with this project, the service for this project will fully comply with the requirements of the Bidding Documents;
6. undertake that the delivery time shall be as specified in the Delivery Schedule;
7. undertake that, except for the deviations listed in the technical specification deviations table and draft contract deviations table, our responses satisfy all requirements of the Bidding Documents.

Company's Name: .....

[Bidder Name & position/role & company stamp]

Date :_____

V. Technical Specification Response

(1) Technical Specification

No.	Description	Required Document
1	Hybrid Power System for 6 units RTGC	- Technical Proposal/Description of System with schematic diagram for main components. - Battery Cell and Module's parameters. - Battery Pack's service life estimation based on assumptions stated in Schedule 1, Section 2, Clause 4.3.13. - Product Catalogue. - General Arrangement drawing for Hybrid Power System's Housing and its internal components.
2	Warranty for Parts/Equipment	- Warranty Statements.

(2) Main Components Data

No.	Component Name	Brand	Model	Specification / Performance Parameters	Country of Origin
1	Battery Pack				
2	Battery Management System (BMS)				
3	Main Control Unit				
4	Active Front End (AFE) Rectifier Charger				
5	Auxiliary Inverter				
6	Battery Thermal Management System				
7	Engine				
8	Generator				
9	Air Conditioner				
10	Fire Suppression System				
11	MCCB/MCB/Relay				

(3) Table of Technical Specification Deviations

No	Technical Specification Clause Number	Description of Deviation
1		
2		
3		
4		
5		
……		

The Bidder guarantees that, except for the deviations listed in the table of Technical Specification Deviations, the Bidder fully complies with all requirements of the Technical Specifications.

Company's Name: ……

[Bidder Name & position/role & company stamp]
Date :_____

VI. Draft Contract Response

Table of Draft Contract Deviations

No	Draft Contract Clause Number	Description of Deviation
1		
2		
3		
4		
5		
.....		

The Bidder guarantees that, except for the deviations listed in the table of Draft Contract Deviations, the Bidder fully complies with all requirements of the Draft Contract.

Company's Name: .....

[Bidder Name & position/role & company stamp]
Date :_____