



Multi Carrier (Mauritius) Ltd

Corner Malherbes & Clément Charoux Streets,
Curepipe
Republic of Mauritius

Date: 15 January 2021

INVITATION TO BID

Procurement Reference No: QUO/20/SMPS-Power Plant/05

Multi Carrier (Mauritius) Limited (hereinafter referred to as “**MCML**” or “the “Purchaser”) is inviting bids for the provision of Goods and Related Services as described morefully in this bid document.

- a) In preparing their bids, prospective bidders are requested to pay close attention to all the terms and conditions listed as part of the Bidding Documents and also the closing date, time, etc.
- b) All documents and forms requested should be duly filled, signed, and stamped, before submission with the Bid. Any missing documents and not adhering to any instructions given may entail the rejection of bids submitted.
- c) Bids shall remain valid for a period of **90 days** as from the closing date.
- d) All Bids must bear reference **QUO/20/SMPS-Power Plant/05** and must be submitted electronically at the email address: tender1@multi-carrier.org at latest by **22nd February 2021 at 11:00 hr (GMT)**.
- e) All queries with respect to this Bidding Documents shall be addressed to **MCML** on the email address: [**queries@multi-carrier.net**](mailto:queries@multi-carrier.net) not later than **29th January 2021**.
- f) Responses to queries will be posted on MCML website ([**http://www.multi-carrier.net**](http://www.multi-carrier.net)) as and when they will be available. It is the responsibility of prospective bidders to consult MCML website on a regular basis for responses to queries. Such documents issued will become part of the Bidding Documents.

Note: The attention of Bidders is hereby drawn to the fact that the Bidding Documents shall not be assigned to third Parties for participating in the bidding exercise unless they are Subsidiaries or Affiliates or Authorised Agents of Original Equipment Manufacturers (OEM).

This should be evidenced by a letter signed by an authorised person of the OEM Company and bearing the Company's seal certifying that the Subsidiary or Affiliate or Authorised Agents is permitted by the Manufacturer to submit a bid on its behalf for the supply of the Goods.



MULTICARRIER (MAURITIUS) LIMITED

OPEN INTERNATIONAL BIDDING

BIDDING DOCUMENTS

for the

**Design, Manufacture, Factory Testing and Supply of
48 V DC SMPS Power Plant**

Procurement Reference No: QUO/20/SMPS-Power Plant/05

Issued on: 15th January 2021

Bidding Document for Procurement of Goods & Related Services

Summary

PART 1 – BIDDING PROCEDURES

Section I. Instructions to Bidders (ITB)

This Section provides information to help bidders prepare their bids. Information is also provided on the submission, opening, and evaluation of bids and on the award of Contracts. Section I contains provisions that are to be used without modification.

Section II. Bidding Data Sheet (BDS)

This Section includes provisions that are specific to each procurement and that supplement Section I, Instructions to Bidders.

Section III. Qualification Criteria

This Section specifies the criteria to be used to determine the qualification of the Bidder to perform the contract.

Section IV. Bidding Forms

This Section includes the forms for the Bid Information, Bid Submission, Technical Compliance Table, and Price Schedule to be submitted with the bid.

PART 2 – SUPPLY REQUIREMENTS

Section V. Schedule of Requirements

This Section includes the Scope of Supply and the Technical Specifications that describe the Goods and Related Services to be procured.

PART 3 – CONTRACT

Section VI. General Conditions of Contract (GCC)

This Section includes the general Clauses to be applied in all contracts. The text of the Clauses in this Section shall not be modified.

Section VII. Special Conditions of Contract (SCC)

This Section includes Clauses specific to each contract that modify or supplement Section VI, General Conditions of Contract.

Section VIII. Contract Forms

This Section includes the form for the Agreement, which, once completed, incorporates corrections or modifications to the accepted bid that are permitted under the Instructions to Bidders, the General Conditions of Contract, and the Special Conditions of Contract.

When required, the form for Bank Guarantee for Advance Payment shall be completed by the successful Bidder only after Contract Award.

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PART 1 – Bidding Procedures

Section I. Instructions to Bidders

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Section I. Instructions to Bidders

	A.General
1. Scope of Bid	<p>1.1 The Purchaser, indicated in the Bidding Data Sheet (BDS), issues these Bidding Documents for the supply of Goods and Related Services incidental thereto as specified in Section V, Schedule of Requirements. The name and identification number of this procurement through Open International Bidding is specified in the BDS. The name, identification, and number of lots are provided in the Price Schedule Form.</p> <p>Throughout these Bidding Documents:</p> <ul style="list-style-type: none"> (a) the term “in writing” means communicated in written form (e.g. by mail, e-mail, fax,) with proof of receipt; (b) if the context so requires, “singular” means “plural” and vice versa; and (c) “day” means calendar day.
2. Eligible Bidders	<p>2.1 An eligible bidder is one who fulfils the conditions below.</p> <p>2.2 A Bidder, and all parties constituting the Bidder, may have the nationality of any country. A Bidder shall be deemed to have the nationality of a country if the Bidder is a citizen or is constituted, incorporated, or registered and operates in conformity with the provisions of the laws of that country. This criterion shall also apply to the determination of the nationality of proposed subcontractors or Suppliers for any part of the Contract including Related Services.</p> <p>2.3 A Bidder that is under a declaration of ineligibility by the Government of Mauritius in accordance with applicable laws at the date of the deadline for bid submission or thereafter, shall be disqualified.</p> <p>2.4 Bids from Suppliers appearing on the ineligibility lists of African Development Bank, Asian Development Bank, European Bank for Reconstruction and Development, Inter-American Development Bank Group and World Bank Group shall be rejected. Links for checking the ineligibility lists are available on the Government of Mauritius Procurement Policy Office’s website:</p>

2.5 A Bidder shall not have conflict of interest. All bidders found to have conflict of interest shall be disqualified. A Bidder may be considered to be in a conflict of interest with one or more parties in this bidding process if they, including but not limited to:

- (a) have controlling shareholders in common; or
- (b) receive or have received any direct or indirect subsidy from any of them; or
- (c) have the same legal representative for purposes of this Bid; or
- (d) have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the Bid of another Bidder, or influence the decisions of the Purchaser regarding this bidding process.

2.6 A Bidder shall not submit more than one bid in this bidding process. Submission by a Bidder of more than one Bid will result in the disqualification of all Bids it has submitted.

2.7 A firm shall be excluded if by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, Mauritius prohibits any import of goods or contracting of Works or services from a country where it is based or any payment to persons or entities in that country.

2.5 Bidders shall provide such evidence of their continued eligibility satisfactory to the Purchaser, as the Purchaser shall reasonably request.

2.6 A Bidder should be an Original Equipment Manufacturer (OEM) manufacturing the SMPS Based Rectifier/Charger Equipment OR any of its **International or Local Subsidiaries/Affiliates/ Authorised Agents**, duly authorised by the OEM to submit a bid on its behalf, having the Certificate of Authorisation from the OEM for submitting a bid and supplying and maintaining the equipment on behalf of the OEM. The Authorisation Certificate shall be required to be submitted in the Technical Proposal at the time of bid indicating the commitment of the

	<p>OEM and its International or Local Subsidiary/Affiliate/Authorised Agent for meeting contractual obligations.</p> <p>2.7 A bidder/OEM, in addition to the above, should also have at least seven (7) years of experience in manufacturing/supplying similar specified equipment and an experience of having preferably supplied such equipment to at least two (2) telecom operators in Mauritius.</p> <p>2.8 In support of the above eligibility requirements, the bidder/OEM is required to provide Order Certificates or Certificates of Completion from the operators in the following format:</p> <ul style="list-style-type: none"> a) Name of Organisation and Country. b) Experience of supplying similar equipment indicating quantity, type and date of supply. c) Statement to the effect that performance against (a) & (b) above was satisfactory. d) The above certificate must be signed by a senior executive of the organisation clearly indicating his/her name, designation and contact details.
<p>3. Eligible Goods and Related Services</p>	<p>3.1 All the Goods and Related Services to be supplied under the Contract may have their origin in any country subject to ITB 2 above.</p> <p>3.2 For purposes of this Clause, the term “Goods” includes commodities, raw material, machinery, equipment, industrial plants and the term “related services” include services such those mentioned in the Section V. Schedule of Requirements.</p> <p>3.3 The term “origin” means the country where the goods have been mined, grown, cultivated, produced, manufactured or processed; or, through manufacture, processing, or assembly, another commercially recognised article results that differs substantially in its basic characteristics from its components.</p>

	B. Contents of Bidding Documents
4. Sections of Bidding Documents	<p>4.1 The Bidding Documents consist of Parts 1, 2, and 3, which include all the Sections indicated below, and should be read in conjunction with any Addendum issued in accordance with “ITB Clause 6 - Amendment of Bidding Documents” below.</p> <p>PART 1 Bidding Procedures</p> <ul style="list-style-type: none"> a) Section I. Instructions to Bidders (ITB) b) Section II. Bidding Data Sheet (BDS) c) Section III. Qualification Criteria d) Section IV. Bidding Forms <p>PART 2 Supply Requirements</p> <ul style="list-style-type: none"> a) Section V. Schedule of Requirements <p>PART 3 Contract</p> <ul style="list-style-type: none"> a) Section VI. General Conditions of Contract (GCC) b) Section VII. Special Conditions of Contract (SCC) c) Section VIII. Contract Forms <p>4.2 The Invitation for Bids issued by the Purchaser is not part of the Bidding Documents.</p> <p>4.3 The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Documents. Failure to furnish all information or documentation required by the Bidding Documents may result in the rejection of the bid.</p>
5. Clarification of Bidding Documents	<p>5.1 A prospective Bidder requiring any clarification of the Bidding Documents shall contact the Purchaser in writing at the e-mail address specified in the BDS. The Purchaser will respond in writing to any request for clarification, if such request is received no later than the number of days, specified in the BDS, prior to the deadline set for submission of bids. Any clarification issued by the Purchaser in response to queries raised by prospective bidders shall form an integral part of the bid documents and it may amount to an amendment of relevant Clauses of the bid documents.</p>

	<p>5.2 Bidders are required to keep watch on MCML web site w.r.t. any amendment to the Bidding Documents document or to clarification to queries raised by the bidders till a day prior to the closing date of the Bidding Documents. MCML reserves the right for rejection of bids if the bids are submitted without taking into account these amendments/clarifications. Further bidders will be fully responsible for the downloading of the Bidding Documents document and amendments for their completeness.</p> <p>5.3 Should the Purchaser deem it necessary to modify or amend the Bidding Documents as a result of a clarification, it shall do so.</p>
6. Amendment of Bidding Documents	<p>6.1 At any time prior to the deadline for submission of bids, the Purchaser may amend the Bidding Documents by issuing addenda.</p> <p>6.2 Any addendum issued shall be part of the Bidding Documents and shall be posted on MCML web site. Bidders are required to keep watch on MCML web site w.r.t. any amendment to the Bidding Documents till a day prior to the closing date of the Bidding Documents.</p> <p>6.3 To give prospective Bidders reasonable time in which to take an addendum into account in preparing their bids, the Purchaser may, at its discretion, extend the deadline for the submission of bids.</p>
	C. Preparation of Bids
7. Cost of Bidding	<p>7.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Purchaser shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.</p>
8. Language of Bid	<p>8.1 The Bid, as well as all correspondences and documents relating to the bid exchanged by the Bidder and the Purchaser, shall be written in English. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages in English, in which case, for purposes of interpretation of the Bid, such translation shall govern.</p>

<p>9. Documents Comprising the Bid</p>	<p>9.1 The Bid must comprise the following:</p> <ul style="list-style-type: none"> (a) the Bid Submission Form and the applicable Price Schedule Form, in accordance with ITB Clause 10; (b) the Bid Information Form and Bid Securing Declaration; (c) documentary evidence establishing the Bidder's eligibility and qualification to bid (OEM experience of supply, etc. ; (d) documentary evidence that the Goods and Related Services to be supplied by the Bidder are of eligible country of origin; (e) documentary evidence that the Goods and Related Services conform to the Bidding Documents (manufacturer's technical brochures & literatures, installation & operating manuals, drawings and circuit diagrams, data sheets, etc. (f) Manufacturer's Authorisation Certificate for submitting a bid, supplying the Goods and providing maintenance support for International or Local Subsidiaries /Affiliates/Authorised Agents of OEM. (g) any other document requested in the Bidding Documents.
<p>10. Bid Submission Form and Price Schedule</p>	<p>10.1 The Bidder shall submit the Bid Submission Form using the form furnished in Section IV, Bidding Forms. This form must be completed without any alteration to its format, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested.</p> <p>10.2 The Bidder shall submit the Price Schedule Form for Goods and Related Services, according to their country of origin as appropriate, using the Price Schedule Form furnished in Section IV, Bidding Forms.</p>
<p>11. Alternative Bids</p>	<p>11.1 Unless otherwise specified in the BDS, alternative bids shall not be considered.</p>
<p>12. Bid Prices</p>	<p>12.1 The prices quoted by the Bidder in the Bid Submission Form and in the Price Schedule Form, shall conform to the requirements specified below.</p> <p>12.2 All lots and items must be listed and <u>priced separately</u> in the Price Schedule Form.</p>

	<p>12.3 The terms EXW, CIP, CIF and other similar terms shall be governed by the rules prescribed in the current edition of Incoterms, published by The International Chamber of Commerce, as specified in the BDS.</p> <p>12.4 Prices shall be quoted as specified in the Price Schedule Form included in Section IV, Bidding Forms. The disaggregation of price components is required solely for the purpose of facilitating the comparison of Bids by the Purchaser. This shall not in any way limit the Purchaser's right to contract on any of the terms offered. For Goods and Related Services offered from outside Mauritius, the price shall be as specified in the BDS;</p> <p>12.5 Prices quoted by the Bidder shall be fixed during the Bidder's performance of the Contract and not subject to variation on any account in respect of changes in production cost, unless otherwise specified in the BDS. A Bid submitted with an adjustable price quotation in this respect shall be treated as non-responsive and shall be rejected.</p>
13. Currencies of Bid	<p>13.1 The Bidder shall quote in EUROS or USD(US Dollar) or GBP(Great Britain Pound), unless otherwise specified in the BDS. Subsidiary/Affiliate companies of manufacturers, based and registered in Mauritius, when submitting their bids, must quote in <u>Mauritian Rupees</u> and must also include in their bid prices all taxes payable internationally and locally (VAT, etc.).</p>
14. Documents Establishing the Eligibility of the Bidder	<p>14.1 To establish their eligibility, Bidders shall complete the Bid Submission Form, included in Section IV: Bidding Forms.</p>
15. Documents Establishing the Eligibility of the Goods and Related Services	<p>15.1 To establish the eligibility of the Goods and Related Services, Bidders shall complete the country of origin declarations in the Price Schedule Form, included in Section IV, Bidding Forms.</p>
16. Documents Establishing the Conformity of the Goods and Related Services	<p>16.1 To establish the conformity of the Goods and Related Services to the Bidding Documents, the Bidder shall furnish as part of its Bid the documentary evidence that the Goods conform to the technical specifications and standards specified in Section V, Schedule of Requirements and in other parts of the Bidding Documents.</p> <p>16.2 The documentary evidence may be in the form of</p>

	<p>manufacturer's technical brochures & literatures, installation & operating manuals, drawings and circuit diagrams, data sheets, etc. and shall consist of a detailed item by item description of the essential technical and performance characteristics of the Goods and Related Services, demonstrating substantial responsiveness of the Goods and Related Services to the technical specification, and if applicable, a statement of deviations and exceptions to the provisions of the Schedule of Requirements.</p>
17. Documents Establishing the Qualifications of the Bidder	<p>17.1 The documentary evidence of the Bidder's qualifications to perform the contract shall establish that a Bidder is qualified to supply the Goods in Mauritius; <u>The documents requested in Section III, Qualifications must be submitted in the Technical Proposal.</u></p>
18. Period of Validity of Bids	<p>18.1 Bids shall remain valid for the period specified in the BDS after the bid submission deadline date prescribed by the Purchaser. A bid valid for a shorter period shall be rejected by the Purchaser as non-responsive.</p> <p>18.2 In exceptional circumstances, prior to the expiration of the bid validity period, the Purchaser may request bidders to extend the period of validity of their bids. The request and the responses shall be made in writing.</p>
19. Warranty Certificate	<p>19.1 Bidders must submit a "Warranty Certificate" in their Technical Proposal certifying compliance with all the conditions specified in Clause 9 of Section V, Schedule of Requirements and Clause 25 of Section VI, General Conditions of Contract.</p>
20. Format and Signing of Bid	<p>20.1 After completing and signing all the Bid forms, they must be scanned and converted to PDF format.</p>
	D.Submission and Opening of Bids
21. Submission and Marking of Bids	<p>21.1 Bids (<u>Technical Proposal Folder and Commercial Proposal Folder separately</u>) must be submitted by email on the email address <u>tender1@multi-carrier.org</u> to the attention of:</p> <p><i>The Chief Executive Officer Multi Carrier (Mauritius) Ltd Corner Clement Charoux and Malherbes Streets Curepipe</i></p>

	<p><i>Republic of Mauritius</i></p> <p>Submission of a bid to any email address other than tender1@multi-carrier.org is not acceptable and the bid will be rejected. The attention of Bidders is invited to the fact that the email address tender1@multi-carrier.org is password protected.</p> <p>21.2 Each Bid shall comprise a “Technical Proposal” and a “Commercial Proposal”. After preparing all the required Bidding Documents in PDF scanned files, the Bidder shall submit them in two separate folders, named as “<u>TECHNICAL PROPOSAL FOLDER</u>” and “<u>COMMERCIAL PROPOSAL FOLDER</u>” respectively.</p> <p>21.3 <u>The duly filled, signed and stamped Price Schedule Form must be submitted ONLY in the “Commercial Proposal Folder”.</u></p> <p><i><u>Note: The Technical proposal shall not contain any pricing information. Failure to separate technical and price components of the Bid shall result in an automatic disqualification.</u></i></p>
22. Deadline for Submission of Bids	<p>22.1 Bids must be received by the Purchaser at the email address tender1@multi-carrier.org not later than the date and time specified in the BDS.</p> <p>22.2 The Purchaser may, at its discretion, extend the deadline for the submission of bids by amending the Bidding Documents, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.</p>
23. Late Bids	<p>23.1 The Purchaser shall not consider any bid that arrives after the deadline for submission of bids. Any bid received by the Purchaser after the deadline for submission of bids shall be declared late and rejected.</p>
24. Withdrawal, Substitution, and Modification of Bids	<p>24.1 A Bidder may withdraw, substitute, or modify its Bid after it has been submitted by sending a written notice, duly signed by an authorized representative, and shall include a copy of the authorisation (the power of attorney). The corresponding substitution or modification of the bid must accompany the respective written notice. All notices must be:</p> <p>(a) clearly marked “Withdrawal,” “Substitution,” or</p>

	<p>“Modification;” and</p> <p>(b) received by the Purchaser prior to the deadline prescribed for submission of bids.</p> <p>(c) No bid may be withdrawn, substituted, or modified in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Bid Submission Form or any extension thereof.</p>
25. Bid Opening	<p>25.1 The Purchaser shall prepare a record of the Bid opening that shall include, as a minimum: the name of the Bidder and whether there is a withdrawal, substitution, or modification; the Bid Price, per lot if applicable, and alternative offers if they were permitted.</p>
	E. Evaluation and Comparison of Bids
26. Confidentiality	<p>26.1 Information relating to the examination, evaluation, comparison of bids, and recommendation of contract award, shall not be disclosed to bidders or any other persons not officially concerned with such process until publication of the Contract Award.</p> <p>26.2 Any effort by a Bidder to influence the Purchaser in the examination, evaluation, comparison, and contract award decisions may result in the rejection of its Bid.</p> <p>26.3 From the time of bid opening to the time of Contract Award, if any Bidder wishes to contact the Purchaser on any matter related to the bidding process, it should do so in writing.</p>
27. Clarification of Bids	<p>27.1 To assist in the examination, evaluation, and comparison of the bids, the Purchaser may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder in respect to its Bid and that is not in response to a request by the Purchaser shall not be considered. The Purchaser’s request for clarification and the response shall be in writing. No change in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Purchaser in the Evaluation of the bids.</p>

<p>28. Responsiveness of Bids</p>	<p>28.1 The Purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself.</p> <p>28.2 A substantially responsive Bid is one that conforms to all the terms, conditions, and specifications of the Bidding Documents without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that:</p> <ul style="list-style-type: none"> (a) affects in a substantial way the scope, quality, or performance of the Goods and Related Services specified in the Contract; or (b) limits in a substantial way, inconsistent with the Bidding Documents, the Purchaser's rights or the Bidder's obligations under the Contract; or (c) if rectified, would unfairly affect the competitive position of other bidders presenting substantially responsive bids. (d) If a bid is not substantially responsive to the Bidding Documents, it shall be rejected by the Purchaser and may not subsequently be made responsive by the Bidder by correction of the material deviation, reservation, or omission.
<p>29. Non conformities, Errors, and Omissions</p>	<p>29.1 Provided that a Bid is substantially responsive, the Purchaser may waive any non-conformities or omissions in the Bid that do not constitute a material deviation.</p> <p>29.2 Provided that a bid is substantially responsive, the Purchaser may request the Bidder to submit the necessary information or documentation, within a reasonable period of time, or to rectify nonmaterial nonconformities or omissions in the bid relating to documentation requirements. Such omission shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.</p> <p>29.3 Provided that the Bid is substantially responsive, the Purchaser shall correct arithmetical errors on the following basis:</p> <ul style="list-style-type: none"> (a) if there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of the Purchaser there is an obvious misplacement of the decimal

	<p>point in the unit price, in which case the line item total as quoted shall govern and the unit price shall be corrected;</p> <p>(b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and</p> <p>(c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.</p>
30. Preliminary Examination of Bids	<p>30.1 The Purchaser shall examine the bids to confirm that all documents and technical documentations requested have been provided in the Technical Proposal, and to determine the completeness of each Technical Bid submitted and the eligibility and qualification of its Bidder.</p> <p>30.2 The Purchaser shall confirm that the following documents and information have been provided in the Technical Bid. If any of these documents or information is missing, the offer may be rejected.</p> <ul style="list-style-type: none"> (i) Company Profile; (ii) Duly filled, signed and stamped Bidder Information Form; (iii) Manufacturer's Authorisation Certificate for submitting a bid, supplying the Goods and providing maintenance support for International or Local Subsidiaries/Affiliates/ Authorised Agents of OEM; (iv) Warranty Certificate; (v) Any documentary evidence (example, from bidder's bank, etc.) to demonstrate that the bidder has the financial capacity to perform under the contract; (vi) Self-Declaration Certificate that the bidder has at least seven (7) years of experience in the manufacturing and/or supplying of similar SMPS based Rectifier/Charger equipment as specified in the bid documents; (vii) Copies of at least three (3) important Order Certificates or Completion Certificates executed by the Bidders for the supply of similar SMPS based Rectifier/Charger equipment as specified in the bid documents <u>during the past five (5)</u>

	<p><u>years.</u></p> <ul style="list-style-type: none"> (viii) Manufacturer's technical brochures & literatures, installation & operating manuals, drawings and circuit diagrams, data sheets, etc. to demonstrate compliance with technical specifications; (ix) ISO 9001:2015 Certificate for the manufacturer's company for Rectifier/Charger System; (x) ISO 9001:2015 Certificate for the manufacturer's company for VRLA batteries; (xi) Duly filled, signed and stamped Technical Compliance Table; (xii) Duly filled, signed and stamped Technical Proposal Checklist Form; (xiii) Deviation Statement Form; (xiv) The proposed programme/syllabus for factory training; (xv) Duly filled, signed and stamped Technical Data sheet; (xvi) Detailed technical specification, charging, discharging & self-discharge characteristics of the proposed battery models; Tables & Graphs for C/8, C/10 and C20 rate of discharge; (xvii) ISO/CE/UL certifications for Batteries; (xviii) Duly filled, signed and stamped Technical Data Sheet (xix) List of proposed spares in their respective quantities <u>without pricing information</u>
31. Examination of Terms and Conditions; Technical Evaluation	<p>31.1 The Purchaser shall examine the Bid to confirm that all terms and conditions specified in the GCC and the SCC have been accepted by the Bidder without any material deviation or reservation.</p> <p>31.2 The Purchaser shall evaluate the technical aspects of the Bid submitted, to confirm that all requirements specified in Section V, Schedule of Requirements of the Bidding Documents have been met without any material deviation or reservation.</p> <p>31.3 If, after the examination of the terms and conditions and the technical evaluation, the Purchaser determines that the Technical Bid is not substantially responsive, it shall reject the Bid.</p>

32. Opening of Commercial Bids	<p>32.1 The Purchaser shall open each Commercial bid whose Technical Bid that has been determined to be substantially responsive. The Purchaser shall confirm that the following documents and information have been provided in the Commercial Bid. If any of these documents or information is missing, the bid may be rejected.</p> <ul style="list-style-type: none"> (i) Bid Submission Form. (ii) Bid Securing Declaration. (iii) Price Schedule Form. (iv) Statement certifying that bidder accepts the Purchaser's terms of payment with regard to the 10% Retention Money. (v) List of proposed spares in their respective quantities together <u>with their unit prices</u> (vi) Duly filled, signed and stamped Commercial Proposal Checklist Form
33. Conversion to Single Currency	<p>33.1 For evaluation and comparison purposes, the Purchaser shall convert all bid prices expressed in amounts in EUROS, USD, or GBP into an amount in Mauritian Rupees, as specified in the BDS, using the selling exchange rates established by the Central Bank of Mauritius at the prevailing exchange rate on the date of opening of bids.</p>
34. Commercial Evaluation & Comparison of Commercial Bids	<p>34.1 The Purchaser shall compare all responsive Commercial Bids whose Technical Bids have been found to be substantially responsive to determine the lowest evaluated bid.</p>
35. Purchaser's Right to Accept Any Bid, and to Reject Any or All Bids	<p>35.1 The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability to Bidders.</p>
	<p style="text-align: center;">F. Award of Contract</p>
36. Award Criteria	<p>36.1 The Purchaser shall award the Contract to the Bidder whose offer has been determined to be the lowest evaluated substantially responsive bid.</p>
37. Notification of Award & Letter of Award	<p>37.1 Prior to the expiration of the period of bid validity, the Purchaser shall notify the selected bidder of the proposed award, in writing, by a Letter of Award of contract. The Letter of Award shall specify the sum that the Purchaser will pay to the Supplier in consideration for the execution and completion of the Contract (hereinafter and in the</p>

	Conditions of Contract and Contract Forms called “the Contract Price”).
38. Signing of Contract	<p>38.1 The Purchaser shall send to the successful Bidder two original copies of the Contract Agreement and the Special Conditions of Contract for signature together with the Letter of Award.</p> <p>38.2 Within fifteen (15) days of receipt of the Contract Agreement, the successful Bidder shall sign, date, and return one copy to the Purchaser.</p>
39. Bank Guarantee for Advance Payment	<p>39.1 As mentioned in the BDS, the successful Bidder shall furnish a Bank Guarantee for Advance Payment in accordance with the General Conditions of Contract, using for that purpose the Bank Guarantee for Advance Payment Form included in Section VIII, Contract forms, or another Form acceptable to the Purchaser.</p> <p>39.2 Failure of the successful Bidder to submit the above-mentioned Bank Guarantee for Advance Payment or sign the Contract shall lead to the annulment of the award. In that event, the Purchaser may award the Contract to the next lowest evaluated Bidder, whose offer is substantially responsive and is determined by the Purchaser to be qualified to perform the Contract satisfactorily.</p>

Section II. Bidding Data Sheet (BDS)

The following specific data for the goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

ITB Clause Reference	A. General
ITB 1.1	<p>The Purchaser is: Multi Carrier(Mauritius)Limited</p> <p>The name and identification number of the Procurement are: Procurement of Goods & Related Services: QUO/20/SMPS-Power Plant/05</p> <p>The number, identification and names of the lots comprising this Procurement are as specified in the Price Schedule Form.</p>
	B. Contents of Bidding Documents
ITB 5.1	<p><u>For Bid Clarifications only</u>, the Purchaser's email address is: Attention: The Chief Executive Officer Multi Carrier(Mauritius) Limited, Corner C. Charoux & Malherbes Streets, Curepipe Republic of Mauritius</p> <p>Electronic mail address: queries@multi-carrier.net</p> <p>Request for Clarification should reach The Chief Executive Officer not later than 29th January 2021, prior to the closing date for submission of bids.</p> <p>Responses to queries will be posted on MCML website (http://www.multi-carrier.net) as and when they will be available. It is the responsibility of prospective bidders to consult MCML website on a regular basis for responses to queries. Such documents issued will become part of the Bidding Documents.</p>
	C. Preparation of Bids
ITB 9.1	The Bidder shall subscribe to a Bid Securing Declaration by signing the Bid Submission Form containing the provision with regard thereto.
ITB 11.1	Alternative Bids shall <u>NOT</u> be considered.
ITB 12.1	<p>The Incoterms edition is Incoterms 2010 and subsequent amendments.</p> <p>a) <u>For Manufacturers overseas</u> On Carriage and Insurance Paid (CIP) basis, in accordance with Incoterms 2010 and subsequent amendments, and the final destination shall be SSR International Airport in Mauritius. The prices quoted should be inclusive of all duties and taxes in the country of shipment only.</p> <p>b) <u>For a Subsidiary / Affiliate Company/ Authorized Agents of International Manufacturing Companies, based and registered in Mauritius and which has submitted a bid:</u> On Delivery Duty Paid (DDP) basis, in accordance with Incoterms 2010 and subsequent amendments, and the final destination shall be MCML. The prices quoted should be inclusive of all</p>

	<p>duties and taxes in the country of shipment and Mauritius.</p> <p>The Goods supplied under the Contract shall be fully insured against loss or damage incidental to transportation, transit, storage and delivery. Responsibility for transportation and insurance of the Goods to the final destination shall be as defined in Incoterms 2010 and subsequent amendments.</p>
ITB 12.5	<p>Bidders are required to quote on a firm and fixed price basis.</p> <p>Quotation of a Firm Price The firm and fixed unit price quoted should be valid for the entire duration of the validity of the offer and subsequently, for the successful Bidder, until supply of all the goods and related services contracted.</p>
ITB 13.1	<p>The Bidder is required to quote in EURO or USD (US Dollar) or GBP (Great Britain Pound) only. Bid prices expressed in currencies other than EURO or USD or GBP or MUR (in the case of subsidiaries/affiliates/Authorised Agents registered locally) <u>shall not be considered</u>.</p> <p>Subsidiaries / Affiliates / Authorised Agents of International Manufacturing Companies, based and registered in Mauritius, when submitting their bids, must quote in Mauritian Rupees (MUR) and must also include in their bid prices all taxes payable internationally and locally (VAT, etc.).</p>
ITB 18.1	The bid validity period shall be 90 days .
	D. Submission and Opening of Bids
ITB 21.1	<p>Bidders shall submit their bids electronically. Bidders shall submit their bids by email on the email address tender1@multi-carrier.org to the attention of:</p> <p><i>The Chief Executive Officer Multi Carrier (Mauritius) Ltd Corner Clement Charoux and Malherbes Streets Curepipe Republic of Mauritius</i></p> <p>Submission of a bid to any email address other tender1@multi-carrier.org is <u>not acceptable</u> and the bid will be rejected. The attention of Bidders is invited to the fact that the email address tender1@multi-carrier.org is password protected.</p> <p><u>The Technical Proposal and the Commercial Proposal should be submitted as separate documents in separate folders.</u></p>
ITB 25.1	<p>The bid opening shall take place at:</p> <p>Multi Carrier (Mauritius) Limited Corner Clement Charoux & Malherbes Streets, Curepipe Republic of Mauritius</p>

Section III Qualification Criteria

This Section complements the Instructions to Bidders. It contains the criteria that the Purchaser may use to determine whether a Bidder has the required qualifications.

Contents

1. Qualification Requirements

The Purchaser shall determine the qualification of the Bidder, using only the requirements specified.

(a) Financial Capability.

The Bidder shall furnish, in its Technical Proposal, any documentary evidence (example, from bidder's bank, etc.) to demonstrate that the bidder has the financial capacity to perform under the contract;

(b) Experience requirements

- (i) The bidder/manufacturer must have at least **seven (7) years** of experience in the manufacturing/supplying of similar SMPS based Rectifier/Charger equipment as specified in the bid documents.
- (ii) The Bidder shall furnish, in its Technical Proposal, as documentary evidence, a Self-Declaration Certificate certifying that it has at least **seven (7) years** of experience in the manufacturing/supplying of similar SMPS based Rectifier/Charger equipment as specified in the bid documents.

(c) Past Orders executed

The Bidder shall furnish, in its Technical Proposal, as documentary evidence, copies of **at least three (3) important** Order Certificates or Completion Certificates executed by the Bidders for the supply of similar SMPS based Rectifier/Charger equipment as specified in the bid documents during **the past five (5) years.**

- (d) In the case of International and Local (which are registered locally and have a place of business in Mauritius) Subsidiaries/Affiliates/Authorised Agents of International Manufacturing Companies, a letter from the International Original Equipment Manufacturing (OEM) Company must be submitted certifying that the entity is authorised to submit a bid on its behalf and that it will comply with all the warranty terms specified in the bid documents.

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Bidder Information Form

[The Bidder shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date:.....*[insert date (as day, month and year) of Bid Submission]*

Procurement No.:.....*[insert reference number of bidding process]*

1. Bidder's Legal Name <i>[insert Bidder's legal name]</i>
2. In case of JV, legal name of each party: <i>[insert legal name of each party in JV]</i>
3. Bidder's actual or intended Country of Registration: <i>[insert actual or intended Country of Registration]</i>
4. Bidder's Year of Registration: <i>[insert Bidder's year of registration]</i>
5. Bidder's Legal Address in Country of Registration: <i>[insert Bidder's legal address in country of registration]</i>
<p>6. Bidder's Authorised Representative</p> <p>Name:.....<i>[insert Authorised Representative's name]</i></p> <p>Address:.....<i>[insert Authorised Representative's Address]</i></p> <p>Telephone/Fax numbers:.....<i>[insert Authorised Representative's telephone/fax numbers]</i></p> <p>Email Address: .....<i>[insert Authorised Representative's email address]</i></p>
<p>7. Attached are copies of original documents of:.....<i>[check the box(es) of the attached original documents]</i></p> <p>Articles of Incorporation or Registration of firm named in 1 above.</p> <p>In case of JV, letter of intent to form JV or JV agreement</p>

Joint Venture Partner Information Form

[The Bidder shall fill in this Form in accordance with the instructions indicated below].

Date:.....*[insert date (as day, month and year) of Bid Submission]*

Procurement No.:.....*[insert reference number of bidding process]*

1. Bidder's Legal Name: <i>[insert Bidder's legal name]</i>
2. JV's Party legal name: <i>[insert JV's Party legal name]</i>
3. JV's Party Country of Registration: <i>[insert JV's Party country of registration]</i>
4. JV's Party Year of Registration: <i>[insert JV's Party year of registration]</i>
5. JV's Party Legal Address in Country of Registration: <i>[insert JV's Party legal address in country of registration]</i>
<p>6. JV's Party Authorized Representative</p> <p>Name:.....<i>[insert name of JV's Party authorized representative]</i></p> <p>Address:.....<i>[insert address of JV's Party authorized representative]</i></p> <p>Telephone/Fax numbers:.....<i>[insert telephone/fax numbers of JV's Party authorized representative]</i></p> <p>Email Address:.....<i>[insert email address of JV's Party authorized representative]</i></p>
<p>7. Attached are copies of original documents of:<i>[check the box(es) of the attached original documents]</i></p> <p>Articles of Incorporation or Registration of firm named in 2, above.</p>

Bid Submission Form

[The Bidder shall fill in this Form in accordance with the instructions indicated. No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date: -----

Procurement of the following Goods and Related Services:

1. Design, Manufacture, Factory Testing and Supply of **complete fully functional** 48 Volt DC Power Plants.

To: **The Chief Executive Officer**
Multi Carrier (Mauritius) Limited,
Corner C. Charoux & Malherbes Streets,
Curepipe
Republic of Mauritius

We, the undersigned, declare that:

- a) We have examined and have no reservations to the Bidding Documents, including Addenda No.: _____ *[insert the number and issuing date of each Addendum];*
- b) We offer to supply in conformity with the Bidding Documents and in accordance with the Delivery Schedule specified in Clause 12 of the General Conditions of Contract.

[insert a brief description of the Goods and Related Services];

- c) The total price of our Bid is:

[insert the total bid price in words and figures, indicating the total amount and the currency];

- d) Our bid shall be valid for a period of **90 days** from the date fixed for the bid submission deadline and it shall remain binding upon us and may be accepted at any time before the expiration of that period;

- e) The Mode of Payment applicable shall be _____

- f) If our bid is accepted, we undertake to obtain a Bank Guarantee for Advance Payment for the initial payment of 30% of the Contract Price for the Contract;
- g) We, including any subcontractors or Suppliers for any part of the contract, have nationality from eligible countries_____

_____*[insert the nationality of the Bidder, including that of all parties that comprise the Bidder, if the Bidder is a JV, and the nationality each subcontractor and Supplier]*

- h) Our firm, its affiliates or subsidiaries or Authorised Agents—including any subcontractor or Supplier for any part of the contract—have not been declared ineligible by an international financing agency such as the World Bank, African Development Bank or any other international agency or under the Laws of Mauritius.
- i) We hereby confirm that we have read and understood the content of the Bid Securing Declaration attached herewith and subscribe fully to the terms and conditions contained therein, if required. We understand that non-compliance to the conditions mentioned may lead to disqualification.
- j) We understand that this bid, together with your letter of Award, the Contract Agreement and Purchase Order shall constitute a binding contract between us.
- k) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

Signed:_____ *[insert signature of person whose name and capacity are shown]*

In the capacity of _____ *[insert legal capacity of person signing the Bid Submission Form]*

Name:_____ *[insert complete name of person signing the Bid Submission Form]*

Duly authorized to sign the bid for and on behalf

of:_____ *[insert complete name of Bidder]*

Dated on _____ day of _____, _____ *[insert date of signing]*

Bid Securing Declaration

By subscribing to the undertaking in respect of paragraph (l) of the Bid Submission Form:

I/We* accept that I/we* may be disqualified from the bidding process if I am/we are* in breach of any obligation under the bid conditions, because I/we*:

- a) have modified or withdrawn my/our* Bid after the deadline for submission of bids during the period of bid validity specified by the Bidder in the Bid Submission Form; or
- b) have refused to accept a correction of an error appearing on the face of the Bid; or
- c) having been notified of the acceptance of our Bid by the Purchaser during the period of bid validity, (i) have failed or refused to execute the Contract, if required, or (ii) have failed or refused to furnish the Bank Guarantee for Advance Payment, in accordance with the GCC.

I/We* understand this Bid Securing Declaration shall cease to be valid (a) in case I/we am/are the successful bidder, upon our receipt of copies of the contract signed by you and the Bank Guarantee for Advance Payment issued to you by me/us ; or (ii) thirty days after the expiration of the validity of my/our* Bid.

In case of a Joint Venture, all the partners of the Joint Venture shall be jointly and severally liable.

Signed: _____ *[insert signature of person whose name and capacity are shown]*

In the capacity of _____ *[insert legal capacity of person signing the Bid Submission Form]*

Name: _____ *[insert complete name of person signing the Bid Submission Form]*

Duly authorized to sign the bid for and on behalf

of: _____ *[insert complete name of Bidder]*

Dated on _____ day of _____, _____ *[insert date of signing]*

Technical Compliance Table

Note 1: Bidders are required to indicate their compliance with each of the Clauses of the Bidding Documents in the Table below and submit the duly filled, signed and stamped Table in their Technical Proposal.

Note 2: Bidders should a Deviation Statement Form to indicate any deviation/s from the Technical Specifications of Bidding Documents and any alternative option they wish to propose instead.

Abbreviation	Interpretation
FC	Fully Compliant
PC	Partially Compliant
NC	Not Compliant
AO	Alternative Option

Section	Bidding Document Clause	BIDDER'S COMPLIANCE Please specify below as FC or PC or NC or AO	REMARKS
SECTION I INSTRUCTIONS TO BIDDERS	A. GENERAL		
	1. Scope of Bid		
	2. Eligible Bidders		
	3. Eligible Goods and Related Services		

	B. CONTENTS OF BIDDING DOCUMENTS		
	4.Sections of Bidding Documents		
	5. Clarification of Bidding Documents& Site Visit		
	6. Amendment of Bidding Documents		
	C. PREPARATION OF BIDS		
	7. Cost of Bidding		
	8. Language of Bid		
	9. Documents Comprising the Bid		
	10. Bid Submission Form and Price Schedule		
	11. Alternative Bids		
	12. Bid Prices		
	13. Currencies of Bid		
	14. Documents Establishing the Eligibility of the Bidder		
	15. Documents Establishing the Eligibility of the Goods and		

	Related Services		
	16. Documents Establishing the Conformity of the Goods and Related Services		
	17. Documents Establishing the Qualifications of the Bidder		
	18. Period of Validity of Bids		
	19. Warranty Certificate		
	20. Format and Signing of Bid		
	D. SUBMISSION AND OPENING OF BIDS		
	21. Submission and Marking of Bids		
	22. Deadline for Submission of Bids		
	23. Late Bids		
	24. Withdrawal, Substitution, and Modification of Bids		
	25. Bid Opening		

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	34. Comparison of Bids		
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	8.0 Spares		

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	11.Scope of Supply		
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	13.Supplier's Responsibilities		
	14.Contract Price		
	16.Copyright		
	17.Confidential Information		
	18.Subcontracting		
	19.Specifications and Standards		
	20.Packing and Documents		

	21. Insurance		
	22. Taxes and Duties		
	23. Inspections and Tests		
	24. Liquidated Damages		
	25. Warranty		
	26. Limitation of Liability		
	27. Change in Laws and		
	28. Force Majeure		
	29. Extensions of Time		
	30. Termination		
	31. Assignment		

Compliance Sheet authorised by:

Signature: _____ Name: _____

Position: _____ Date: _____

Authorised for and on behalf of:

Company: _____

TECHNICAL DATA SHEET

This Technical Data Sheet is to be duly filled, signed and stamped before submission in the Technical Proposal.

Sn	Item	Please enter value/s
1	Rack/Enclosure Dimensions for 10 Ampere Rectifier/Charger System	Length.....mm Width.....mm Depth.....mm
2	Overall Weight of 10 Ampere complete Rectifier/Charger System in rack/enclosure	.....Kg
3	Rack/enclosure Dimensions for 15 Ampere Rectifier/Charger System	Length.....mm Width.....mm Depth.....mm
4	Overall Weight of 15 Ampere complete Rectifier/Charger System in rack/enclosure	.....Kg
5	Rack/enclosure Dimensions for 20 Ampere Rectifier/Charger System	Length.....mm Width.....mm Depth.....mm
6	Overall Weight of 20 Ampere Rectifier/Charger System in rack/enclosure	.....Kg
7	Rack/enclosure Dimensions for 30 Ampere Rectifier/Charger System	Length.....mm Width.....mm Depth.....mm
8	Overall Weight of 30 Ampere Rectifier/Charger System in rack/enclosure	.....Kg
9	Rack/enclosure Dimensions for 50 Ampere Rectifier/Charger System	Length.....mm Width.....mm Depth.....mm
10	Overall Weight of 50 Ampere Rectifier/Charger System in rack/enclosure	.....Kg
11	Make & Model for Single Phase Rectifier/Charger System	..........
12	Make & Model for Three Phase Rectifier/Charger System	..........

13	Country of Origin of Rectifier/Charger System	.....
14	Input Power Factor for Single Phase Rectifier/Charger System	.....
15	Input Power Factor for Three Phase Rectifier/Charger System	.....
16	Efficiency for Single Phase Rectifier/Charger System	
17	Efficiency for Three Phase Rectifier/Charger System	
18	MTBF of Rectifier/Charger System	
19	Make & Model of battery	..........
15	Country of Origin of battery	.....

Technical Data Sheet authorised by:

Signature: _____ Name: _____

Position: _____ Date: _____

Authorised for and on behalf of:

Company: _____

Deviation Statement Form

Bidding Documents CLAUSE	DEVIATION	REMARKS INCLUDING JUSTIFICATION	ALTERNATIVE PROPOSED

Date:.....

Name:

Signature and Seal of Bidder:

Note:

- a) Please use photocopies of this form for additional information, if required.
- b) Where there is no deviation, the statement should be returned duly signed with an endorsement indicating **“No Deviation”**.

Price Schedule Form

[The Bidder shall fill in the Price Schedule Form in accordance with the instructions indicated. The list of line items in column 1 of the **Price Schedules** shall coincide with the List of Goods and Related Services specified by the Purchaser in the Schedule of Requirements.]

Note: Local Subsidiaries/Affiliates/ Authorised Agents of Original Equipment Manufacturers (OEM), based and registered in Mauritius, when submitting their bids, **must quote in Mauritian Rupees(MUR)** and must also include in their bid prices all taxes payable internationally and locally (VAT, etc.).

Price Schedule				
Prices shall be in EUROS or USD or GBP or MUR Bid currency: (insert currency).....		Date: _____ Procurement Ref. No: _____		
			Unit Price	Total price
Sn	Description of Goods and related services	Quantity		
1	10 Ampere DC pre-wired rack/enclosure-mounted Rectifier/Charger System (-48V DC) along with cable and connecting accessories	1 Lot		
2	Battery Bank for 10 Ampere Rectifier/Charger System inclusive of rack/enclosure/cabinet	1 Lot		
3	15 Ampere DC pre-wired rack/enclosure-mounted Rectifier/Charger System (-48V DC) along with cable and connecting accessories	3 Lots		
4	Battery Bank for 15 Ampere Rectifier/Charger System inclusive of rack/cabinet	3 Lots		

5	20 Ampere DC pre-wired rack/enclosure-mounted Rectifier/Charger System (-48V DC) along with cable and connecting accessories	6 Lots		
6	Battery Bank for 20 Ampere Rectifier/Charger System inclusive of rack/cabinet	6 Lots		
7	30 Ampere DC pre-wired rack/enclosure-mounted Rectifier/Charger System (-48V DC) along with cable and connecting accessories	3 Lots		
8	Battery Bank for 30 Ampere Rectifier/Charger System inclusive of rack/cabinet	3 Lots		
9	50 Ampere DC pre-wired rack/enclosure-mounted Rectifier/Charger System (-48V DC) along with cable and connecting accessories	2 Lots		
10	Battery Bank for 50 Ampere Rectifier/Charger System inclusive of rack/cabinet	2 Lots		
11	Factory Training at Manufacturer's factory	1 Lot		
	Local (on-site) training	1 Lot		
12	Instruction and Maintenance Manuals to be supplied with Power Plants in accordance with Clause 10 of Section V - Schedule of Requirements + One (1) copy of all the Manuals in PDF format on a DVD.	Four (4) printed sets		
13	Set of Spares	1 Lot		
14	Freight & Insurance Cost to SSR International Airport in Mauritius. (Applicable for overseas Manufacturers/Suppliers)	1 Lot		

15	All taxes, duties & VAT, loading, unloading, and transportation to MCML Malherbes Transmitting Station(<i>applicable only for a Subsidiary / Affiliate Company or Authorised Agents of a Manufacturer which is based and registered in Mauritius</i>)	1 lot		
TOTAL BID PRICE (Prices shall be Fixed & Firm)				
<p>.....</p> <p>Name of Bidder [<i>insert complete name of Bidder signing the Bid</i>]</p> <p>.....</p> <p>Date [<i>Insert Date</i>]</p> <p>.....</p> <p>Signature of Bidder [<i>signature of person signing the Bid</i>]</p>				

PART 2 – Supply Requirements

Section V. Schedule of Requirements

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ABBREVIATIONS

1. A Amperes
2. AC Alternative Current
3. AH Ampere Hour
4. dB Decibel
5. dBA Decibel Absolute
6. DC Direct Current
7. FR-BC Float Rectifier cum Boost Charger
8. KHz Kilohertz
9. LED Light Emitting Diodes
10. LCD Liquid Crystal Device
11. MHz Megahertz
12. MOSFET Metal Oxide Semiconductor Field Effect Transistor
13. MOV Metal Oxide Varistor
14. MTBF Mean Time between Failures
15. PCB Printed Circuit Board
16. PF Power Factor
17. RFI Radio Frequency Interference
18. SMPS Switch Mode Power Supply
19. V Volt
20. VRLA Valve Regulated Lead Acid

TECHNICAL SPECIFICATIONS FOR 48 V DC SMPS BASED POWER PLANT COMPRISING FLOAT RECTIFIER - CUM - BOOST CHARGER SYSTEM AND VRLA GEL TYPE BATTERY BANK.

1.0 GENERAL TECHNICAL REQUIREMENTS

- 1.1 This part covers the general technical requirement of 48 V DC SMPS Based Power Plants, based on High Frequency Switch Mode Techniques using switching frequencies of 20KHz and above for use in **MCML** Radio & TV relay stations.
- 1.2 Each 48 V DC SMPS Based Power Plant shall comprise a 48 V DC SMPS Based Float Rectifier–Cum–Boost Charger and a 48 V DC Battery Bank. The Power Plant shall be capable of meeting the load capacity requirements of **MCML** microwave radio relay links and associated equipment as per the **Table 1** at Sub Clause 1.17 below as well as the battery bank.
- 1.3 The SMPS Based Rectifier/Charger System is intended to be used in Float Rectifier cum Boost Charger (FR-BC) mode as a regulated DC Power Source.
- 1.4 The Float Rectifier–Cum–Boost Charger System shall comprise modular AC/DC converter modules working in parallel load sharing arrangement working on high frequency switching mode power supply (SMPS) technique using **MOSFET** devices and the front mounted SMPS modules should be hot swappable. The Rectifier/Charger System shall have “**N+1**” modular redundancy configuration.
- 1.5 The Float Rectifier–Cum–Boost Charger System shall be suitable for trickle charging a 48 V DC Battery Bank in addition to feeding 48 Volt DC power to microwave radio relay links and other auxiliary equipment (the Load) whenever AC input is available from utility AC supply or from a standby Diesel Generator set.
- 1.6 In spite of fluctuations in the input voltage and the frequency variation of mains input supply (within the specified values at Sub Clause 1.16 below) , there must be line regulated DC output voltage for feeding the microwave radio relay links. The DC output voltage shall also be load regulated. The input AC voltage shall be 230 V AC \pm 6% for single phase Power Plants and 400 V AC \pm 6% for Three-Phase Power Plants depending on the **MCML** relay station location. The **Table 1** at Sub Clause 1.17 below identifies the **MCML** relay stations with single–phase and three-phase AC input respectively.

- 1.7 In the event of mains supply failure, the battery bank shall supply the total load current as long as the battery bank is not discharged below 80% of its capacity (or as recommended by the manufacturer of the proposed batteries). A Low Voltage Disconnect (LVD) should protect the batteries from deep discharge. On restoration of mains supply, the float rectifier-cum-boost charger shall resume its normal function of charging the batteries as well as feeding the microwave radio relay links automatically.
- 1.8 Depending on the status of the batteries i.e. voltage per cell and previous discharge history, it shall be possible for automatic switching between float and boost charging. Separate outputs for batteries and equipment should be available, and boost voltage shall be prevented from appearing across the station load.
- 1.9 Digital Control: The charger should employ digital control with DSP controller for providing predictive control of rectification & monitoring capability. The charger should have a multi-line dot matrix or LCD/LED display of suitable size, on the front panel to indicate control status and event log.
- 1.10 The side and top panels of the equipment should be designed in such a way so as to allow sufficient ventilation for the components. The ON-OFF switch, input and output fuses or circuit breakers, indication lamps/LEDs, voltmeter and ammeter readings, output voltage control, etc. are to be provided on the front panel. Suitable cable entry holes shall be provided at the bottom or top of the equipment, where necessary.
- 1.11 The Rectifier/Charger System shall have a Distribution-Switching-Control-Alarm Arrangement (DSCA).
- 1.12 The Rectifier/Charger System shall be housed in either a wall-mounted or a floor standing rack or a manufacturer's custom designed or standard enclosure depending on the current capacity requirement of the System.
- 1.13 It shall be possible for the Rectifier/Charger System to work with a Battery Bank comprising VRLA gel type maintenance free batteries.
- 1.14 The Distribution-Switching-Control-Alarm Arrangement (DSCA) shall comply with the requirements of Section-5 of this document.
- 1.15 The Rectifier/Charger System shall be suitable for operation from single phase or three phase input AC Mains supply depending on its the location of operation (see Table 1 at Sub Clause 1.17 below) or from a standby Diesel Generator Set.

1.16 The Single-Phase and Three-Phase Power Plants are categorized as below depending on the stability of the incoming power source.

(i) Suitable for single phase incoming power supply 230 V AC \pm 6%.

(ii) Suitable for three phase incoming power supply 400 V AC \pm 6%.

1.17 One Power Plant is required to be installed and operated at each of the **MCML** Relay Station as per the **Table 1** below.

Table 1				
SN	Name of MCML Relay Station (location)	Input AC Supply	Configuration	Capacity Requirement (Amperes)
1	Butte aux Papayes	Single	N+1	20
2	Corps de Garde	Single	N+1	10
3	Jurancon	Single	N+1	20
4	Le Morne	Single	N+1	20
5	Malherbes	3-phase	N+1	50
6	Mont Roches	Single	N+1	20
7	Mont Simonet	Single	N+1	30
8	MBC Moka	Single	N+1	30
9	Motte Therese	Single	N+1	20
10	Plaine Paul	Single	N+1	30
11	Pointe Jerome	Single	N+1	20
12	Pointe du Diable	Single	N+1	15
13	Signal Mountain	3-Phase	N+1	50
14	Bel Air	Single	N+1	15
15	Baie du Cap	Single	N+1	15

1.18 For each Rectifier/Charger System, the FR-BC modules shall be provided in a **(n+1) redundancy parallel configuration** housed in in a single rack/enclosure where 'n' is the actual required number of FR-BC modules required for meeting the particular load requirements at a particular location.

1.19 The Capacity requirements in **Table 1** above have already taken into consideration existing capacity requirements of the current load and future expansion requirements.

2.0 Rack/enclosure Configuration

- a) The rack/enclosure shall be composed of the following units housed in sub-racks:
 - (i) Float Rectifier cum Boost Charger (FR-BC) Modules;
 - (ii) Distribution-Switching-Control-Alarm Arrangement (DSCA);
- b) The number and rating of FR-BC modules shall be provided as per the Purchaser's capacity requirements for each location as shown in the **Table 1** above.
- c) The Distribution-Switching-Control-Alarm Arrangement (DSCA) shall also cater for the capacity requirements for each location.
- d) The rack/enclosure in which shall be installed the Rectifier/Charger System should be fully wired and constitute a complete fully functional Rectifier/Charger System for putting into service at delivery.
- e) Procedures for adjustment of float voltage, boost voltage, battery current limit and other adjustments required to be done in the field shall be provided after award of contract.
- f) Further details of System Rack/enclosure Configuration are given in SECTION 3 of this document.

2.1 The Electrical and Mechanical requirement of FR-BC modules are given in SECTION 4 & SECTION 6 of this document respectively.

2.2 The Electrical and Mechanical requirement of Distribution-Switching-Control-Alarm Arrangement (DSCA) are given in SECTION 5 of this document.

2.3 The Parts & Components including Fuses and Circuit Breakers for manufacturing of the SMPS Based Rectifier/Charger System shall be of Industrial Grade. These Parts & Components shall be procured from reputed manufacturers to ensure continuous high availability and reliability service and prompt delivery of spare parts.

2.4 The Power Transformers and Chokes shall use Class B or Higher Grade of insulation.

2.5 Components mounting and fixing methods shall be well secured.

2.6 All insulated conductors except those within the confines of a printed circuit board assembly shall be of the rating enough to withstand the maximum current voltage during fault and overload.

2.7 All wirings shall be neatly secured in position and adequately supported. Where wires pass through any part of metal panel or cover, the hole through which they pass shall be suitably bushed with rubber grommet.

2.8 All non-current carrying metal parts shall be bonded together and earthed. An earth terminal suitable for connecting a minimum 4 mm diameter wire and with suitable marking shall be provided.

2.9 Quality and Workmanship

2.9.1 All materials and workmanship shall be of professional quality to ensure the MTBF requirements.

2.9.2 The equipment and components shall not use any material, which support combustion.

2.10 Climatic/Environmental Requirements

2.10.1 The Power Plant shall operate at the specified ratings and shall conform to requirements contained in the Bidding Documents and as per the requirements of relevant British Standards and the International Electrotechnical Commission (IEC) for 48 V DC SMPS Based Power Plants including the FRBC Modules and DSCA Modules.

2.10.2 The SMPS Based Power Plants shall be designed & manufactured for continuous operation at rated load in the ambient temperature range of 13° C to 55°C with Relative Humidity that may occasionally exceed 95%. For extreme temperature conditions, the efficiency shall remain as given below:

A. Efficiency:

1. For Units working on Single Phase Input

a) Nominal Input, Output & Full rated load - better than 85%

2. For Units working on Three Phase Input

a) At Nominal Input, Output & Full rated load - better than 90%

B. Power Factor:

a) At nominal Input/output & load 75% to 100%, the Power Factor should be between 0.95 lag & 0.98 lead

2.11 Insulation Resistance and Voltage Proof

2.11.1 The insulation resistance of a fully wired Rectifier/Charger assembly when tested with a 500V DC Megger shall be as given below:

a) AC input and Earth - Greater than 2 Mega Ohm

b) DC Output and Earth - Greater than 1 Mega Ohm

c) AC input and DC output - Greater than 5 Mega Ohm.

2.12 Lightning Protection

2.12.1 The SMPS Based Rectifier/Charger System shall have modular Type I/Class B and Type II/Class C surge protections (The devices shall have been tested as per the latest VDE 0675 and IEC 61643 standards and shall be in compliance with IEC 61312, IEC 61024) in **TT configuration of wiring**. Both the Type I/Class B and Type II/Class C arrestors should be from the same manufacture and shall be mounted as per the specific installation recommendations of the manufacturer to achieve perfect coordination.

2.12.2 Coordination Between Class B/Type I and Class C/Type II Protection

There shall be a perfect coordination between Class B/Type I and Class C/Type II stages. The proper coordination of the SPD System as well as safety of operation shall be specifically ensured.

2.12.3 Parallel/Series arrangement of Spark Gap (SG) with MOVs is not permitted in Type I/Class B as well as Type II / Class C.

2.12.4 Type III/Class D Protection

All external 48 V DC Power Lines connected to the SMPS Power Plant shall be protected by using pluggable Type-III/Class D Surge Protection Devices. The devices shall be in compliance to IEC 61643-1 and VDE 0675 Part-6. These devices are to be connected in parallel to the SMPS Power Plant output connected to the load. These Type-III / Class-D devices shall have a visual indication as well as remote indication function to indicate the prospective life and failure mode to facilitate replacement of the overstressed SPDs. These protection devices shall be equipped with thermal disconnection, as a protection against SPD failure due to open and short circuit.

2.15 Radio Frequency Interference Suppression

The modules shall be designed to minimize the level of electromagnetic interference (EMI), both conducted and radiated, detected in its vicinity and generated by Switch Mode Power Conversion Equipment operating within the rack/enclosure.

2.16 Noise & Vibration: The fully equipped rack/enclosure at full load shall not contribute more than 15dB (weighted) to the ambient noise level taken as 45dBA. It shall be measured at a distance of 1 meter from the unit and 1.25m above the floor level in the Acoustic Range.

2.17 Module Replacement Time & MTBF:

2.17.1 Module Replacement Time. The mean time to replace a faulty rectifier module shall be less than 20 minutes.

2.17.2 The MTBF of the System shall not be less than 70,000 hours.

2.17.3 The fans provided shall have MTBF better than 70,000 hours at 40° C.

2.17.4 In case of fan failure, the module shall have automatic protection to switch off with extension of suitable alarm. It shall not cause any fire hazard.

2.18 Packing:

2.18.1 Power plants complete shall be packed in suitable boxes/crates, strong enough, to prevent damage or loss to the unit during transit for delivery. Loose space inside the box/crate shall be filled up with suitable packing material.

2.18.2 It is desirable that the fragile components such as meters and PC cards are individually packed to prevent damage.

2.18.3 Each box shall be marked at one end with code numbers, contents quantity and name of manufacturer/Supplier.

3.0 SYSTEM AND RACK/ENCLOSURE CONFIGURATION

3.1 Scope: This section deals with the mechanical and electrical requirements of the rack/enclosure. The Rack/enclosure shall be capable of accommodating the following equipment/units as given below:

- a) Float Rectifier – cum – Boost Charger (FR-BC) Modules.
- b) Distribution-Switching-Control-Alarm Arrangement.

3.2 Constructional features of Rack/enclosure:

3.2.1 The FR-BC Modules shall be accommodated in a rack/enclosure. Suitable mechanical structure/arrangement for holding modules in position shall be provided so that the module is held firmly by sliding through it.

3.2.2 The rack/enclosure structure shall be made up of a rigid framework of anti-corrosive steel. The sides of the rack/enclosure may have suitable ventilating arrangements. The front door (if provided) and rear door (if provided) may be of hinged or removable type. The rear door shall be provided with proper ventilation arrangement. The rack/enclosure shall conform to at least IP 31 type of protection.

3.2.3 The rack/enclosure shall be treated with Zinc Chromate Primer followed by Electrostatic Epoxy Powder Coating Paint finished. Small metal parts such as nuts, bolts and washers shall be either galvanized or chrome plated. All other metal parts of the rack/enclosure shall be plated for protection against corrosion.

- 3.2.4 The top of the rack/enclosure shall be fully covered except for proper ventilation or cable entries. Each airflow vent shall be covered by a grill to prevent foreign material larger than 5mm dropping into the rack/enclosure.
- 3.2.5 The rack/enclosure shall be free of sharp edges & sharp corners.
- 3.2.6 With doors in position (where applicable), all the common visual alarms and meters shall be clearly visible. In case of hinged door, meters and alarm indications are permitted on door also. However, the fixtures on the door shall not restrict the movement of door in any way.
- 3.3 Dimensions: Dimensions of the fully wired rack/enclosure and overall weight for all the capacities shall be specified in the table in the Technical Data Sheet.
- 3.4 Rack/enclosure mounting arrangement shall be such as to provide easy access from front, rear and top for installation and maintenance.
- 3.5 The number of FR-BC Modules required for each **MCML** Relay Station shall be determined by the current capacity requirements of the location in accordance with **Table 1** above and the ratings of individual FR-BC Modules.
- 3.6 The Distribution-Switching-Control-Alarm Arrangements shall be provided for the Capacity requirements as per **Table 1** above. All AC, DC or control/alarm cabling/wiring shall be pre-wired.
- 3.7 The individual FR-BC Modules (where applicable) shall be easily mounted on or removed from the rack/enclosure.
- The FR-BC Modules shall be designed to slide into the rack/enclosure on a suitable mechanical arrangement. The associated AC input, DC output connections, Control/alarms and interface cables connecting the modules shall be disconnected/installed easily without causing any interruption/damage to the supply and working modules (hot swapping).
- 3.8 Proper thermal engineering of hardware design shall be done by the manufacturer so as to ensure the uninterrupted use of the equipment. The rack/enclosure complete with all panels fitted shall be designed to allow cooling by natural convection. DC fans are permitted in the rack/enclosure or FR-BC modules. If cooling is provided at rack/enclosure level, it shall be provided with additional fan with facility for manual switch over. Proper fitting shall be provided to control dust ingress. If required, individual modules may be separated by air baffle to provide effective convection. The manufacturer shall also ensure that the failure of fan

does not cause any fire hazards. The failure of any of the fans shall draw immediate attention of the maintenance staff.

3.9 Facility shall be made to connect external AC power at the top or bottom of the rack/enclosure and alarm cable & DC output distribution module at the top of the rack/enclosure. Where cables pass through metal panels suitable bushings shall be provided to protect cables from damage. Bus-bars, if used, shall be suitably spaced and insulated to prevent any possibility of short circuit between bus-bar and rack/enclosure.

3.10 Electrical requirements:

3.10.1 AC input supply: Power Plants using FR-BC modules for capacity requirements of **30 Amperes or less** shall operate from **single phase** 230 V AC input whilst Power Plants using FR-BC modules for capacity requirements of **50 Amperes** shall operate from **3 phase** 4-wire 400V AC input. The nominal input frequency is 50Hz \pm 1.5% and the input voltage range shall be as given below:

- a) Single Phase 230V \pm 6%
- b) Three Phase/4 Wire 400V \pm 6%

3.10.2 There shall be an automatic arrangement for shutting off the FR-BC Modules wherever the input voltage is beyond the specified operating limits with suitable alarm indication. It shall resume normal working automatically when the input is restored within the working limits. All the FR-BC Modules shall switch OFF simultaneously.

3.10.3 FR-BC Modules working from 3-phase/4-wire input shall work satisfactorily for unbalance of \pm 6% of nominal input. The module shall be isolated (if required for the protection of the unit) in the event of unbalance beyond 6% and shall be restored when the input is within limits.

4.0 FLOAT RECTIFIERS CUM BOOST CHARGER (FR-BC) MODULES

4.1 Scope: This section deals with electrical and mechanical requirement of FR-BC Modules.

4.2 General: The FR-BC Modules used shall be such as to be accommodated in a rack/enclosure in the required capacities as per **Table 1** at Sub Clause 1.17 above).

4.3 Mechanical Requirements

4.3.1 The FR-BC Modules may be cooled by natural convection for small capacities and by natural/forced cooling for high capacities.

4.3.2 The FR-BC modules shall be removable from the front of the rack/enclosure only. All AC input, DC output and alarm/control/monitoring cables interconnecting the modules and racks shall be easily disconnected by disconnecting the male-female or directly PCB mounted pluggable plugs or connectors.

4.4 DC Output Characteristics

4.4.1 The modules shall be capable of operating in 'Auto Float-cum-Boost' mode and it shall be programmed to operate as a Float Rectifier or a Boost Charger depending on the condition of the battery sets being sensed by the Switching/Control Unit. It shall be possible to operate the Rectifier/Charger System in **manual boost charge mode** for charging deeply discharged batteries.

4.4.2 Auto Float Mode

a) The float voltage of each rectifier module shall be continuously adjustable & pre-settable at any value in the range recommended by the manufacturer for the GEL type VRLA batteries to be supplied.

4.4.3 Auto Charge Mode: In Auto Charge Mode, the FR-BC modules shall supply battery & load equipment with current until the terminal voltage reaches its set value & thereafter continue to charge in constant voltage mode. It shall remain in this mode until a changeover to float mode signal is received.

4.5 Efficiency: The minimum efficiency of the single phase and three phase units shall be as given below:

4.5.1 Units working on Single Phase AC

a) At nominal input, output and full rated load better than 85%

4.5.2 Units working on Three Phase AC

a) At nominal input, output and full rate load better than 90%

4.6 Input Power Factor: The input power factor at nominal input, output voltage and load 75% to 100% shall be between 0.95 lagging and 0.98 leading but it shall remain between 0.90 lag and 0.90 lead in any other working condition and load between 25% to 100%.

4.7 Total Harmonic Distortion:

4.7.1 Total Voltage Harmonic Distortion: The total line harmonic voltage distortion shall not be more than 10% at 50%-100% of rated load.

4.8 Current limiting (Voltage Droop)

4.8.1 Current limiting (Voltage Droop) shall be provided for Float Charge operation.

- 4.8.2 The float and charge current limit adjustment shall be provided on the front panel of the rectifier module.
- 4.8.3 The FR-BC modules shall be fully protected against short circuit. It shall be ensured that short circuit does not lead to any fire hazard.
- 4.9 Soft Start Feature:
- 4.9.1 Slow start circuitry shall be employed such that FR-BC module input current and output voltage shall reach their nominal value within 10 seconds.
- 4.9.2 The maximum instantaneous current during start up shall not exceed the peak value of the rectifier input current at full load at the lowest input voltage.
- 4.10 Voltage overshoot/undershoot
- 4.10.1 The requirements of Sub Clauses 4.10.2 to 4.10.4 below shall be achieved without a battery connected to the output of FR-BC module.
- 4.10.2 The FR-BC modules shall be designed to minimize output voltage overshoot/undershoot such that when they are switched on the DC output voltage shall be limited to $\pm 5\%$ of the set voltage & return to their steady state within 20ms for any load of 25% to 100%.
- 4.10.3 The DC output voltage overshoot for a step change in AC mains shall not cause shut down of FR-BC modules and the voltage overshoot shall be limited to $\pm 5\%$ of its set voltage and return to steady state within 20 ms.
- 4.10.4 The modules shall be designed such that a step load change of 25 to 100% shall not result in DC output voltage overshoot/undershoot of not more than 5% and return to steady state value within 10ms without tripping the unit.
- 4.11 Electrical Noise
- 4.11.1 The rectifier (FR-BC) modules shall be provided with suitable filter on the output side.
- 4.11.2 A resistor shall be provided to discharge the capacitors after the rectifier modules have stopped operation and the output is isolated.
- 4.11.3 The Psophometric Noise (e.m.f weighted at 800 Hz) with a battery of appropriate capacity connected across the output should be within 2mV while delivering the full rated load at nominal input.
- 4.11.4 The Peak-to-Peak Ripple: Voltage at the output of the rectifier module on full load without battery connected shall not exceed 300mV at the Switching Frequency measured by an Oscilloscope of 50/60 MHz bandwidth (typical).
- 4.12 Parallel Operation:

4.12.1 The FR-BC modules shall be suitable for operating in parallel with one or more modules of similar type, make and rating, other output conditions remaining within specified limits.

4.12.2 The current sharing shall be within $\pm 10\%$ of the average current per rectifier module and within individual capacity of each rectifier module in the System when loaded between 50 to 100% of its rated capacity for all other working conditions.

4.13 Protection:

4.13.1 DC over voltage protection.

4.13.1.1 Each rectifier module shall be fitted with an internal over-voltage protection circuit and the over-voltage protection circuit shall operate & shut off the faulty module. Restoration of the module shall be through a reset switch/push button.

4.13.1.2 Shutting-off of a faulty FR-BC module shall not affect the operation of other FR-FBs operating in the rack/enclosure.

4.13.1.3 Operation of over-voltage shut down shall be suitably indicated on the module and also extended to monitoring/control unit.

4.13.1.4 The circuit design shall ensure protection against the discharge of the battery through the FR-BC module in any case.

4.13.1.5 The over voltage protection circuit failure shall not cause any safety hazard.

4.13.2 Fuse/Circuit Breakers: Fuses or circuit breakers shall be provided for each FR-FB module as follows:

1. Live AC input line
2. Negative DC output
3. against failure of Control sensing circuit

4.13.2.1 All fuses/circuit breakers used shall be suitably fault rated.

4.13.3 AC Under/Over Voltage Protection: AC input Under/Over voltage protection shall be provided.

4.13.4 Over Load/Short Circuit Protection: The FR-BCs shall be protected for overload/short circuit.

4.14 Alarms and Indicating Lamps

Visual indications/displays such as LEDs, LCDs or a combination of both shall be provided on each FR-BC module or on the front panel of the System to indicate the following:

- a) Functional Indications
- b) Alarm Indications

Functional indications shall be extended as status and alarm indications as “FR-BC” Fail to the Distribution-Switching-Control and Alarm Arrangement.

4.15 Terminations:

4.15.1 The AC Input Connection to the rectifier module shall be by means of pluggable connectors. These connectors shall be made of complete non-ferrous metal parts. The male connectors shall preferably be mounted in the FR-BC Module and female connectors be terminated to the cable.

4.15.2 The DC Output Connection from the rectifier module for smaller rating (up to 30 Amps) shall be by means of pluggable connectors. These connectors shall be made of complete non-ferrous metal parts. For higher rating suitable termination lugs shall be provided. The male connectors shall preferably be mounted in the FR-BC Module and female connectors shall be preferably terminated to the cable.

5.0 DISTRIBUTION/SWITCHING/CONTROL AND ALARM ARRANGEMENT (DSCA)

Depending on the System’s requirements and manufacturer’s design, the Rectifier/Charger System shall be provided with a Distribution-Switching-Control-Alarm Arrangement (DSCA) in accordance with the capacity requirements for the Power Plant.

The unit shall comprise of the following:

- a) Termination for the batteries
- b) Termination for the load
- c) Interconnecting arrangement for power equipment
- d) Battery Switching Arrangement (Connection to/isolation from System)
- e) Termination for AC input to the rack/enclosure
- f) Termination for AC and DC to FR-BC modules
- g) Circuit Breakers/fuses etc.

5.1 Dimensions:

5.1.1 The Distribution/Switching Sub-System of the equipment shall preferably be in the modular form whereas Control/Alarm & Monitoring Sub-System shall be modular only. The Distribution/Switching Sub-System shall be accommodated in the rack/enclosure with FR-BC modules.

5.1.2 The unit shall preferably be housed in the upper portion of the rack/enclosure above the FR-BC modules.

5.1.3 The DSCA shall be provided for the capacity requirement of the SMPS Based Power Plant according to its location. All AC, DC Control, Alarm cabling/wiring shall be pre-wired in the rack/enclosure ready for putting into operation.

5.2 Accessibility:

5.2.1 All the termination points shall be easily accessible from front, rear or top.

5.2.2 The AC modular earth terminal should be touch proof with universal yellow green housing symbolizing the potential earth with all non-ferrous metal parts including the screws.

5.3 AC Termination Arrangement:

5.3.1 The Input Terminals shall be clearly marked as R, Y, B and N for three phase and L and N for single phase as applicable.

AC Terminations should be modular in design. These Terminations shall be made of complete non-ferrous metal parts. The Termination Block shall be preferably as per IEC-947-7-1.

5.3.2 AC input termination shall be suitably protected against the accidental touch/contact with the working staff for their protection and shall also have clear and prominent "DANGER" Marking.

5.3.3 Screening shall be provided between AC & DC components to prevent accidents.

5.3.4 All the connections between DSCA and FR-BC shall be through properly rated cables only.

5.3.5 Fuses and Circuit Breakers for each FR-BC shall be easily accessible and properly rated.

5.3.6 Proper terminations for AC at the input of the circuit breakers and its output to the FR-BC.

5.4 DC Terminations:

5.4.1 Connection between FR-BC and DC Distribution shall be through a properly rated lugged cable. Wherever cables are used, the same shall be terminated through the appropriately screw locking type Terminal Blocks. These Terminal Blocks shall be made of complete non-ferrous metal parts.

5.4.2 The DC output to battery and load shall be through cable.

5.4.3 The provision for interconnection between load & FR-BC or battery (along with switching arrangement) and terminations for load, battery & FR-BC shall be made. The isolation of any of the battery from the load shall create an alarm.

5.4.4 The proper rated fuses/circuit breakers shall be provided on the –ve DC lead from the FR-BC (if not provided at FR-BC module).

5.4.5 All the AC, DC and control/alarm cabling shall be supplied with the rack/enclosure.

5.4.6 All DC + ve and –ve loads shall be clearly marked.

5.4.7 All conductors shall be properly rated to prevent excessive heating.

5.5 Alarms.

5.5.1 The following visual indications/display such as LEDs, LCDs or a combination of both shall be provided to indicate the following.

(a) Functional Indications:

- (i) Mains Available (not mandatory if provided at module level)
- (ii) FR-BC in Float Charge Mode
- (iii) FR-BC in Boost Charge Mode

(b) Alarm Indications:

- (i) Load Voltage High / Low
- (ii) FR-BC Fail (Any failure condition as per Clause 4.14 above.
- (iii) Mains Out of Range
- (iv) System Over Load
- (v) Mains 'ON'/Battery Discharge
- (vi) Fan Fail (in case fan provided at rack/enclosure level)
- (vii) Temperature Compensation Fail
- (viii) Battery Fail/Isolated

5.5.2 All alarm circuits shall be provided with suitable delay to ensure that they do not operate from transients.

5.5.3 Every alarm condition shall be accompanied with an audio alarm with audio cut-off facility.

5.5.4 Potential Free Contacts (one for alarm and one redundant) shall be provided for extension of alarms to a centralized Display.

5.5.5 Potential Free Contacts for connecting to a network monitoring system for monitoring DC output fail, DC output over voltage, DC output under voltage and mains fail, Battery Health monitoring/Isolation, etc. shall be provided. Alternatively, the Power Plant shall have provision for RS-232 or RS-485 or SNMP over TCP/IP connectivity compatible for remote control monitoring of the above system parameters depending upon the user's requirements.

5.6 Battery Monitoring

5.6.1 Battery Under Voltage Isolation: To cater for the requirements of unattended stations like **MCML** radio relay stations, the provision for automatic isolation of battery bank from the load shall be made available. The bidder shall propose

such type of power plants and load and battery capacities. The operate and release voltages for the Battery Bank to be supplied shall be specified.

5.6.2 Battery Health Monitoring in Auto Mode: To keep the battery in healthy state, the battery condition shall be continuously monitored. On restoration of AC mains after an interruption, depending on the battery condition (depth of discharge) sensed, the System shall change over to Auto Boost Charge mode to charge the battery till the battery is fully recovered.

5.6.3 Temperature Compensation for Battery: There shall be provision for monitoring the temperature of battery and consequent arrangement for automatic temperature compensation of the FR-BC output voltage to match the battery temperature dependant charge characteristics. Failure of temperature compensation circuit including sensors shall create an alarm and shall not lead to abnormal change in output voltage.

5.6.4 Battery Reverse Polarity Protection: Protection for battery reverse polarity shall be provided in the System.

5.6.5 D.C. Contactor: High quality DC contactors, UL approved should be used for battery path disconnection circuit.

5.7 Meters:

There shall be provision to monitor AC voltage (either at module or at the control unit), DC current and voltage with the help of digital meters to read the voltages and currents of the System, batteries or any of the individual FR-BC (at individual FR-BC module also permitted).

Visual indication such as LED, Dot matrix LCD, etc. displays shall be provided to indicate:

- a) Mains available
- b) Phase failure/ wrong phase
- c) Charge/ Discharge
- d) Charger over load
- e) Float mode/ Boost mode
- f) Output fail
- g) Battery Low.

6.0 BATTERY BANK

- 6.1 Each Battery Bank shall be designed to provide a **backup time of 10 hours** to power the load during failure of input utility AC supply and standby diesel generator set.
- 6.2 The Battery Bank shall comprise of **sealed maintenance free VRLA GEL batteries** with immobilized electrolyte and leak proof with cover seal. The container shall be made of flame retardant PVC or equivalent. Battery banks shall be provided in stackable batteries. Stackable batteries shall have airflow channels between cells for cooling. VRLA batteries shall be manufactured in accordance with International Quality Standard ISO-9001-2000 for which manufacturer shall be duly accredited (The ISO-9001-2000 Certificate for the Manufacturer's company must be submitted in the Technical Proposal). The steel racks, containing the batteries, shall be painted with acid-resistant paint.
- 6.3 The batteries shall be of long life, large thermal capacity, corrosion resistant, wide operating temperature range (appropriate for tropical climatic conditions prevailing in Mauritius), strong charge acceptance & better deep discharge resistance.
- 6.4 The cells of batteries shall not explode or burn when an electrostatic discharge of 15 KVA is applied to any of its part exposed to contact.
- 6.5 The Supplier shall design and size (calculate final Ampere-Hour capacity) the Battery Banks taking into account all factors having an effect on the actual capacity of the batteries during operation, such current (Ampere) requirement capacities at each **MCML** Relay Station, room temperature variations, voltage drop and losses in battery connecting cables, etc.
- 6.6 The designed Ampere-Hour (AH) rated capacity of the batteries to be supplied shall provide **backup power to the load for a duration of 10 hours.**
- 6.7 The capacity of the each battery shall be calculated at 13 - 55°C room temperature variations. The Supplier shall provide the discharge tables of battery at C/3, C/4, C/5, C/6, C/8, C/10 and C/20 rate of discharge to enable **MCML** staff to set the charge controller voltage low disconnect to ensure that the batteries are not allowed to discharge beyond 80% of their rated capacity (or as recommended by the manufacturer).

6.8 The design life of the battery shall be at least 15 years.

6.9 The bidder should provide the detailed technical specification, charging, discharging & self-discharge characteristics of the proposed battery models in its Technical Proposal. The bidder shall provide the Tables & Graphs showing relation of the closed circuit voltage, impedance and the residual capacity of each cell in the batteries, when they are discharged at C/3, C/4, C/5, C/6, C/8, C/10 and C20 rate of discharge.

6.10 The batteries shall have compliance to ISO/CE/UL certifications and the bidder should submit the relevant certifications.

6.11 The proposed battery sets shall be compact and shall require no regular maintenance. All safety equipment required for installation shall be provided by the Supplier.

6.12 Due to the space constraint at the **MCML** Relay Station sites, the bidder should propose an optimal solution to stack the batteries with minimum footprint within the available floor space. The battery banks shall include battery mounting racks or frames, and other accessories such as cables, etc. required to provide complete operational battery banks. The bidder shall quote for the price of the Battery Banks inclusive of these accessories.

7.0 TRAINING

7.1 Bidders must include in their offer, factory training of duration five (5) days minimum for **a maximum of three (3)** technical staff (Engineers and Technicians) who will maintain and repair the equipment after the warranty period. The cost for air tickets and per diem expenses like hotel costs and subsistence allowance for the factory training will be borne by the Purchaser.

7.2 The bidder must also include at least one week of local (on-site) training on the operation, monitoring of status, maintenance and repair of the System, for at least ten (10) technical staff. This training should be quoted in the Price Schedule Form separate from the factory training. Due to the prevalence of Covid-19 disease worldwide, the scheduling of both training sessions will be finalised by mutual agreement after signature of a contract.

7.3 Both trainings should include theoretical and practical lessons and should cover detailed fault-finding procedures, repairs, maintenance and calibration for the equipment. The duration of the training, if different from above proposed schedule, should be clearly specified. The **proposed training programme/syllabus** shall be submitted with the bid.

7.4 The training session should be carried out by a fully qualified engineer. Course notes (handouts) and documentation shall be provided during both factory and local (on-site) training.

7.5 Course notes and documentation shall be provided in both hard and soft copies. All courses shall use the English Language, involve theoretical and practical training on the equipment, and demonstrate simulation of faults where possible, use documentation tailored to the Power Plant Systems to be supplied. Training Documents should include Design Details, Detailed Circuit Diagrams, Component Layout Plans, Preventive Maintenance Procedures, and Corrective Maintenance Procedures, etc.

7.6 At the completion of each course, each trainee shall have:-

- (a) a full set of course notes in English (hard and soft copies)
- (b) an overview of the complete System
- (c) a sound understanding of the System operation and functionality
- (d) knowledge of the functional design of the sub Systems down to board level including alarms and fault indications within the System,
- (e) proficiency in the operation of the System,
- (f) a detailed knowledge of any configurable parameters,
- (g) detailed knowledge of how to perform preventative and corrective maintenance including:-
 - (i) checking performance parameters
 - (ii) interpreting fault conditions
 - (iii) selecting and applying maintenance aids such as fault finding procedures, test programs, remote control and monitoring, test equipment;
 - (iv) carrying out adjustments, and
 - (iv) performing normal restoration of service.

7.7 At the end of each course, each participant shall be supplied with a Certificate of Completion to certify that they have attended the course.

8.0 SPARES

8.1 Bidders must propose a comprehensive set of recommended spares suitable for supporting the whole Systems (spares for Rectifier/Charger Systems and Battery Banks) for a period of one year to ensure continuous operation and minimum downtime taking into consideration the criticality of the proposed Systems. Bidders must submit a list of all the spare parts proposed in their respective quantities in their Technical Proposal **without prices**.

Important Note: No pricing information should be given in the Technical Proposal.

8.2 Replacement spares shall be available for a period of no less than 15 years from the date of commissioning of the equipment. In case any module/part of the Systems is to become obsolete, the Purchaser has to be notified promptly and alternate solutions have to be proposed as replacement.

9.0 WARRANTY OBLIGATIONS & WARRANTY CERTIFICATE

9.1 The Supplier warrants that the Goods supplied shall be new and free from all defects and faults in materials used, workmanship and manufacture and shall be of the highest grade and consistent with the established and generally accepted standards for materials of the type ordered and shall perform in full conformity with the specifications and drawings.

9.2 The Supplier shall be responsible for any defect that may develop under the conditions provided by the contract and under proper use, arising from faulty material, design or workmanship such as corrosion of the equipment, inadequate quantity of material to meet equipment requirements, inadequate contact protection, deficiencies in circuit design and/or otherwise and shall remedy such defects at his own cost when called upon to do so by the Purchaser who shall state in writing in what respect the Goods are faulty during the warranty period or within thirty days of its expiration. Warranty shall also include replacement of faulty Software.

9.3 Unless otherwise specified in the Special Conditions of Contract, the bidder shall guarantee the satisfactory working of all the goods without any fault & defect for **a minimum of two (2) years** from the date of their installation, testing, commissioning and acceptance by the Purchaser which shall not be later than 5

weeks after delivery is made **in accordance with General Conditions of Contract (GCC) 12.**

- 9.4 The Purchaser shall give notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect such defects.
- 9.5 The warranty period for all items replaced or repaired shall recommence from the date when the replacement or repair was made to the satisfaction of the Purchaser. If the contract provides for partial acceptance, the warranty period shall be extended only for the part of the supplies affected by the replacement or repair.
- 9.6 If any such defects appear or such damage occurs during the period referred to in Sub Clause 25.2 above, the Purchaser shall notify the Supplier. If the Supplier fails to remedy a defect or damage within a reasonable time limit, which shall not be more than five (5) working days as shall be stipulated in the notification, the Purchaser may: a) remedy the defect or the damage itself, or employ someone else to carry out the work at the Supplier's risk and cost, in which case the costs incurred by the Purchaser shall be deducted from monies due to or from guarantees held against the Supplier or from both ; or b) terminate the contract.
- 9.7 However, in case of recurrent breakdown leading to the disruption in the service provided by the equipment, the Purchaser reserves the right to claim a new equipment of the same Make, Model, and Country of Manufacture and in perfect working condition from the Supplier within a reasonable delay from being notified.
- 9.8 The Supplier should provide the above services to the Purchaser without any additional cost during the whole warranty period of the equipment and each CLAUSE of the warranty will be applicable as from date of notification to the Supplier.

Important Note: Bidders must submit a “Warranty Certificate” in their Technical Proposal certifying compliance with all the conditions specified in this Clause 9.0 of Section V, Schedule of Requirements and Clause 25 of Section VI, General Conditions of Contract.

10.0 INSTRUCTION AND MAINTENANCE MANUALS TO BE SUPPLIED WITH POWER PLANTS.

10.1 The Supplier shall provide four (4) sets of comprehensive documentations comprising of installation, operation, maintenance, troubleshooting, and commissioning manuals, etc. for the SMPS Based Rectifier/Charger Systems with their associated Battery Banks as follows:

- (i) One (1) set for **10A** capacity Rectifier/Charger Systems and Battery Banks,
- (ii) One (1) set for **15A** capacity Rectifier/Charger Systems and Battery Banks,
- (iii) One (1) set for **30A** capacity Rectifier/Charger Systems and Battery Banks, and
- (iv) One (1) set for **50A** capacity Rectifier/Charger Systems and Battery Banks.

The manuals shall be bound volumes and shall contain all the approved drawings, circuit diagrams, wiring diagrams, parts lists, and all other relevant information required for the proper installation, operation, maintenance and troubleshooting and commissioning of the Goods.

10.2 The manual has to include dimensioned layout drawings, detailed circuit and schematic diagrams, PC card layouts and detailed interconnecting drawings of modules and switching arrangement. Details of testing and adjustment procedure, initial checks on receipt at site, detail installation & commissioning procedures, maintenance procedure, proposed routine maintenance tests, actual test results obtained for the particular and at the factory and a detailed trouble shooting chart shall be outlined in the manual. A copy of the Instruction and Maintenance Manuals shall also be provided on a DVD.

10.3 The Manuals are to be prepared using good quality paper with clear and crisp printing. All the drawings in clear printing shall be attached to the handbook binding. One set of flow chart drawings necessary for troubleshooting shall be provided with lamination with each manual. The handbook shall have a thick polythene sheet cover with plastic spiral binding or comb binding.

PART 3 - Contract

Section VI. General Conditions of Contract

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Section VI. General Conditions of Contract

1. Definitions	<p>1.1 The following words and expressions shall have the meanings hereby assigned to them:</p> <ul style="list-style-type: none"> (a) “Contract” means the Contract Agreement entered into between the Purchaser and the Supplier, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein. (b) “Contract Documents” means the documents listed in the Contract Agreement, including any amendments thereto. (c) “Contract Price” means the price payable to the Supplier as specified in the Contract Agreement, subject to such additions and adjustments thereto or deductions therefrom, as may be made pursuant to the Contract. (d) “Day” means calendar day. (e) “Completion” means the delivery of all the contracted Goods and Related Services by the Supplier in accordance with the terms and conditions set forth in the Contract. (f) “Contract Effective Date” means the date of signature of Contract by the last Party to the Contract. (g) “final destination” means either SSR International Airport in Mauritius for Overseas Manufacturers/ Suppliers or MCML Main Transmitter Station in Curepipe for Subsidiaries / Affiliates / Authorised Agents of International Manufacturing Companies. (h) “GCC” means the General Conditions of Contract. (i) “Goods” means all of the commodities, raw material, machinery and equipment, and/or other materials that the Supplier is required to supply to the Purchaser under the Contract. (j) “Purchaser” means the entity purchasing the Goods and Related Services, as specified in the
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	<p>SCC.</p> <p>(k) “Related Services” means the services incidental to the design, manufacture, factory testing and supply of the goods, and other such obligations of the Supplier under the Contract.</p> <p>(l) “SCC” means the Special Conditions of Contract.</p> <p>(m) “Subcontractor” means any natural person, private or government entity, or a combination of the above, to whom any part of the Goods to be supplied or execution of any part of the Related Services is subcontracted by the Supplier.</p> <p>(n) “Supplier” means the natural person, private or government entity, or a combination of the above, whose bid to perform the Contract has been accepted by the Purchaser and is named as such in the Contract Agreement.</p>
2. Contract Documents	<p>2.1 Subject to the order of precedence set forth in the Contract Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory. The Contract Agreement shall be read as a whole.</p>
3. Interpretation	<p>3.1 If the context so requires it, singular means plural and vice versa.</p> <p>3.2 Incoterms</p> <p>(a) Unless inconsistent with any provision of the Contract, the meaning of any trade term and the rights and obligations of parties hereunder shall be as prescribed by Incoterms 2010 and its subsequent amendments.</p> <p>(b) The terms EXW, CIP, FCA, CFR and other similar terms, when used, shall be governed by the rules prescribed in the edition of Incoterms specified in the SCC and published by the International Chamber of Commerce in Paris, France.</p> <p>3.3 Entire Agreement</p> <p>The Contract constitutes the entire agreement</p>

	<p>between the Purchaser and the Supplier and supersedes all communications, negotiations and agreements (whether written or oral) of the parties with respect thereto made prior to the date of Contract.</p> <p>3.4 Amendment</p> <p>No amendment or other variation of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of each party thereto.</p> <p>3.5 Non-waiver</p> <p>(a) No relaxation, forbearance, delay, or indulgence by either party in enforcing any of the terms and conditions of the Contract or the granting of time by either party to the other shall prejudice, affect, or restrict the rights of that party under the Contract, neither shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.</p> <p>(b) Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, dated, and signed by an authorized representative of the party granting such waiver, and must specify the right and the extent to which it is being waived.</p> <p>3.6 Severability</p> <p>If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.</p>
4. Language	<p>4.1 The Contract as well as all correspondence and documents relating to the Contract exchanged by the Supplier and the Purchaser, shall be in English. Supporting documents and printed literature that are part of the Contract may be in another language provided they are accompanied by an accurate translation of the relevant passages in the</p>

	<p>language specified, in which case, for purposes of interpretation of the Contract, this translation shall govern.</p> <p>4.2 The Supplier shall bear all costs of translation to the governing language and all risks of the accuracy of such translation, for documents provided by the Supplier.</p>
5. Joint Venture, Consortium or Association	<p>5.1 If the Supplier is a joint venture, consortium, or association, all of the parties shall be jointly and severally liable to the Purchaser for the fulfilment of the provisions of the Contract and shall designate one party to act as a leader with authority to bind the joint venture, consortium, or association. The composition or the constitution of the joint venture, consortium, or association shall not be altered without the prior consent of the Purchaser.</p>
6. Eligibility	<p>6.1 The Supplier and its Subcontractors shall have the nationality of an eligible country. A Supplier or Subcontractor shall be deemed to have the nationality of a country if it is a citizen or constituted, incorporated, or registered, and operates in conformity with the provisions of the laws of that country.</p> <p>6.2 All Goods and Related Services to be supplied under the Contract shall have their origin in Eligible Countries. For the purpose of this Clause, origin means the country where the goods have been grown, mined, cultivated, produced, manufactured, or processed; or through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.</p>
7. Notices	<p>7.1 Any notice given by one party to the other pursuant to the Contract shall be in writing to the address specified in the SCC. The term “in writing” means communicated in written form with proof of receipt.</p>
8. Governing Law	<p>8.1 The Contract shall be governed by and interpreted in accordance with the laws of Mauritius, unless otherwise specified in the SCC.</p>
9. Settlement of Disputes	<p>9.1 The Purchaser and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising</p>

	<p>between them under or in connection with the Contract.</p> <p>9.2 If after thirty (30) days from the commencement of such negotiations both parties have been unable to resolve amicably any disagreement or dispute, either party may require that the matter be referred to arbitration under the rules of conciliation and Arbitration of the Permanent Commercial Conciliation Court of the Mauritius Chamber of Commerce and Industry. An Arbitrator will be appointed, by mutual consent, in accordance with the said rules.</p> <p>9.3 The Arbitration proceedings shall take place in Mauritius. The language used during Arbitration proceedings shall be English.</p> <p>9.4 Arbitration may be commenced prior to or after delivery of the Goods under the Contract.</p>
10. Inspections and Audit	<p>10.1 The Supplier shall permit, and shall cause its Subcontractors and consultants to permit the Purchaser or persons appointed by the Purchaser to inspect the Supplier's offices and all accounts and records relating to the performance of the Contract and the submission of the bid, and to have such accounts and records audited by auditors appointed by the Purchaser if requested by the Purchaser.</p>
11. Scope of Supply	<p>11.1 The Goods and Related Services to be supplied shall be as specified in the Schedule of Requirements.</p>
12. Delivery of Goods	<p>12.1 All the goods is to be delivered within twelve (12) Weeks from the date of signature of the Contract.</p> <p>All the goods shall be delivered as follows:</p> <p>a) <u>For Manufacturers overseas</u></p> <p>On Carriage and Insurance Paid (CIP) basis, in accordance with Incoterms 2010 and amendments, and the final destination shall be SSR International Airport in Mauritius. The prices quoted should be inclusive of all duties and taxes in the country of shipment only.</p> <p>b) For a Subsidiary or Affiliate or Authorised Agents of a Manufacturer which is based and</p>

	<p>registered in Mauritius and which has submitted a bid:</p> <p>On Delivery Duty Paid (DDP) basis, in accordance with Incoterms 2010 and subsequent amendments, and the final destination shall be MCML. The prices quoted should be inclusive of all duties and taxes in the country of shipment and Mauritius.</p> <p>The Goods supplied under the Contract shall be fully insured against loss or damage incidental to transportation, transit, storage and delivery. Responsibility for transportation and insurance of the Goods to the final destination shall be as defined in Incoterms 2010 and subsequent amendments.</p>
13. Supplier's Responsibilities	13.1 The Supplier shall supply all the Goods and Related Services included in the Scope of Supply of the Bidding Documents and in accordance with the GCC. The Delivery Schedule shall be as per GCC Sub Clause 12.1 above.
14. Contract Price	14.1 Prices charged by the Supplier for the Goods supplied and the Related Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid.
15. Terms of Payment	<p>15.1 The Contract Price, including any Advance Payment, if applicable, shall be paid as specified in the SCC.</p> <p>15.2 The Supplier's request for payment shall be made to the Purchaser in writing, accompanied by invoices describing, as appropriate, the Goods delivered and Related Services performed, and by the documents submitted pursuant to GCC Clause 14 and upon fulfilment of all other obligations stipulated in the Contract.</p> <p>15.3 Payments shall be made promptly by the Purchaser, but in no case later than thirty (30) days after submission of an invoice or request for payment by the Supplier, and after the Purchaser has accepted it.</p> <p>15.4 The currency in which payments shall be made</p>

	<p>to the Supplier under this Contract shall be made in the currency in which the bid price is expressed.</p> <p>15.5 In the event that the Purchaser fails to pay the Supplier any payment by its due date or within the period set forth in the SCC, the Purchaser shall pay to the Supplier interest on the amount of such delayed payment at the rate shown in the SCC, for the period of delay until payment has been made in full, whether before or after judgment or arbitrage award.</p>
16. Copyright	<p>16.1 The copyright in all drawings, documents, and other materials containing data and information furnished to the Purchaser by the Supplier herein shall remain vested in the Supplier, or, if they are furnished to the Purchaser directly or through the Supplier by any third party, including Suppliers of materials, the copyright in such materials shall remain vested in such third party</p>
17. Confidential Information	<p>17.1 The Purchaser and the Supplier shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any documents, data, or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract. Notwithstanding the above, the Supplier may furnish to its Subcontractor such documents, data, and other information it receives from the Purchaser to the extent required for the Subcontractor to perform its work under the Contract, in which event the Supplier shall obtain from such Subcontractor an undertaking of confidentiality similar to that imposed on the Supplier.</p> <p>17.2 The Purchaser shall not use such documents, data, and other information received from the Supplier for any purposes unrelated to the contract. Similarly, the Supplier shall not use such documents, data, and other information received from the Purchaser for any purpose other than the performance of the Contract.</p>

	<p>17.3 The obligation of a party under GCC Sub-Clauses 17.1 and 17.2 above, however, shall not apply to information that:</p> <ul style="list-style-type: none"> a) the Purchaser or Supplier need to share with institutions participating in the financing of the Contract; b) now or hereafter enters the public domain through no fault of that party; c) can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party; or d) otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality. <p>17.4 The above provisions of GCC Sub Clause 17.3 shall not in any way modify any undertaking of confidentiality given by either of the parties hereto prior to the date of the Contract in respect of the Supply or any part thereof.</p> <p>17.5 The provisions of GCC Sub Clause 17.1 shall survive completion or termination, for whatever reason, of the Contract.</p>
18. Subcontracting	<p>18.1 The Supplier shall notify the Purchaser in writing of all subcontracts awarded under the Contract if not already specified in the bid and shall obtain prior permission for same in writing from the Purchaser. Such notification, in the original bid or later shall not relieve the Supplier from any of its obligations, duties, responsibilities, or liability under the Contract.</p> <p>18.2 Subcontracts shall comply with all the provisions of the GCC.</p>
19. Specifications and Standards	<p>19.1 Technical Specifications and Standards</p> <ul style="list-style-type: none"> a) The Goods and Related Services supplied under this Contract shall conform to the technical specifications mentioned in Section V, Schedule of Requirements.

	<p>b) The applicable standards for the Rectifier/Charger System are as follows:</p> <ul style="list-style-type: none"> (i) IEC 60950-1 for Electrical safety; (ii) BS EN IEC 61000-6-4:2019 for Electromagnetic compatibility (EMC); (iii) ETSI EN 300 019-2 & ETSI EN 300 132-2 for testing. (iv) Other acceptable relevant internationally recognised standards applicable. <p>c) When no applicable standard is mentioned, the permitted standard shall be equivalent or superior to the latest official British Standards and International Electrotechnical Commission (IEC) applicable to such Goods and Related Services.</p> <p>d) The Supplier shall <u>mention all the relevant codes and standards</u> which has been used for the design, manufacture and testing of the Goods and for performance of the related services in the technical documentations submitted with the Technical proposal. The latest edition or the revised version of such codes and standards shall be applicable.</p>
20. Packing and Documents	<p>20.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. During transit, the packing shall be sufficient to withstand, without limitation, rough handling and exposure to extreme temperatures, salt and precipitation, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.</p> <p>20.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in the SCC, and in any other instructions ordered by</p>

	the Purchaser.
21. Insurance	21.1 Unless otherwise specified in the SCC , the Goods supplied under the Contract shall be fully insured by the Supplier against loss or damage incidental to manufacture or acquisition, transportation, loading and unloading, storage, and final delivery shall be in accordance with Clause 12.1 of the GCC.
22. Taxes and Duties	22.1 All taxes and duties shall be the responsibility of the Supplier until the Goods have reached their final destination and in accordance with Clause 12.1 of the GCC.
23. Inspections and Tests	<p>23.1 The Supplier shall at its own expense and at no cost to the Purchaser carry out all factory tests and/or inspections of the Goods and Related Services as are specified in the SCC.</p> <p>23.2 The inspections and tests may be conducted at the Manufacturer's factory, on the premises of the Supplier or its Subcontractor/s, at the points of delivery, and/or at the Goods' final destination, or in another place in Mauritius as specified in the SCC.</p> <p>23.3 The Purchaser or its designated representative shall be entitled to attend the tests and/or inspections, provided that the Purchaser bears all of its own costs and expenses incurred in connection with such attendance including, but not limited to, all travelling and board and lodging expenses.</p> <p>23.4 Whenever the Supplier is ready to carry out any such test and inspection, it shall give a reasonable advance notice, including the place and time, to the Purchaser. The Supplier shall obtain from any relevant third party or manufacturer any necessary permission or consent to enable the Purchaser or its designated representative to attend the test and/or inspection.</p> <p>23.5 The Supplier shall provide the Purchaser with a report of the results of any such test and/or inspection. A complete factory test report must</p>

	<p>be provided with each Rectifier/Charger System delivered. The test report is to show compliance with the contracted performance of the System and the Purchaser will accept the normal factory test report used by the Manufacturer, provided that this is agreed to in advance. The Purchaser reserves the right for its engineers to take part in some, or all, of these tests. The cost of all of the above-mentioned handbooks and test reports are to be included in the bid price and are to form part of the contract price.</p> <p>23.6 The Purchaser may reject any Goods or any part thereof that fail to pass any test and/or inspection or do not conform to the specifications. The Supplier shall either rectify or replace such rejected Goods or parts thereof or make alterations necessary to meet the specifications at no cost to the Purchaser, and shall repeat the test and/or inspection, at no cost to the Purchaser, upon giving a notice thereof.</p> <p>23.7 The Supplier agrees that neither the execution of a test and/or inspection of the Goods or any part thereof, nor the attendance by the Purchaser or its representative, nor the issue of any report shall release the Supplier from any warranties or other obligations under the Contract.</p> <p>23.8 The Purchaser will inspect the goods upon reception in Mauritius and reserves the right to reject same based on non-compliance. This right shall in no way be limited or waived by reason of the goods having previously been inspected, tested and approved for shipment by the Purchaser or its representative at the Supplier's premises. Should any tested or inspected goods fail to conform to the specifications, the Purchaser may reject the goods, and the Supplier shall either replace the rejected goods or make alterations necessary to meet the specification requirements free of cost to the Purchaser</p>
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<p>24. Liquidated Damages</p>	<p>24.1 Except as provided under GCC Sub Clause 28.1, if the Supplier fails to deliver any or all of the Goods by the date(s) of delivery within the period specified in the Contract, the Purchaser may without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in the SCC of the Contract Price for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in those SCC. Once the maximum is reached, the Purchaser may terminate the Contract pursuant to GCC Clause 30.</p>
<p>25. Warranty</p>	<p>25.1 The Supplier warrants that the Goods supplied shall be new and free from all defects and faults in materials used, workmanship and manufacture and shall be of the highest grade and consistent with the established and generally accepted standards for materials of the type ordered and shall perform in full conformity with the specifications and drawings.</p> <p>25.2 The Supplier shall be responsible for any defect that may develop under the conditions provided by the contract and under proper use, arising from faulty material, design or workmanship such as corrosion of the equipment, inadequate quantity of material to meet equipment requirements, inadequate contact protection, deficiencies in circuit design and/or otherwise and shall remedy such defects at his own cost when called upon to do so by the Purchaser who shall state in writing in what respect the Goods are faulty during the warranty period or within thirty days of its expiration. Warranty shall also include replacement of faulty Software.</p> <p>25.3 Unless otherwise specified in the Special Conditions of Contract, the bidder shall guarantee the satisfactory working of all the goods without any fault & defect for a minimum of two (2) years from the date of their installation, testing, commissioning and acceptance by the Purchaser which shall not be later than 5 weeks after delivery is made in</p>

	<p>accordance with General Conditions of Contract (GCC) 12.</p> <p>25.4 The Purchaser shall give notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect such defects.</p> <p>25.5 The warranty period for all items replaced or repaired shall recommence from the date when the replacement or repair was made to the satisfaction of the Purchaser. If the contract provides for partial acceptance, the warranty period shall be extended only for the part of the supplies affected by the replacement or repair.</p> <p>25.6 If any such defects appear or such damage occurs during the period referred to in Sub Clause 25.2 above, the Purchaser shall notify the Supplier. If the Supplier fails to remedy a defect or damage within a reasonable time limit, which shall not be more than five (5) working days as shall be stipulated in the notification, the Purchaser may: a) remedy the defect or the damage itself, or employ someone else to carry out the work at the Supplier's risk and cost, in which case the costs incurred by the Purchaser shall be deducted from monies due to or from guarantees held against the Supplier or from both ; or b) terminate the contract.</p> <p>25.7 However, in case of recurrent breakdown leading to the disruption in the service provided by the equipment, the Purchaser reserves the right to claim a new equipment of the same Make, Model, and Country of Manufacture and in perfect working condition from the Supplier within a reasonable delay from being notified.</p> <p>25.8 The Supplier should provide the above services to the Purchaser without any additional cost during the whole warranty period of the equipment and each CLAUSE of the warranty will be applicable as from date of notification to the Supplier.</p>
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26. Limitation of Liability	<p>26.1 Except in cases of criminal negligence or wilful misconduct,</p> <ul style="list-style-type: none"> (a) the Supplier shall not be liable to the Purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Supplier to pay liquidated damages to the Purchaser and (b) the aggregate liability of the Supplier to the Purchaser, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the Supplier to indemnify the Purchaser with respect to patent infringement
27. Change in Laws and Regulations	<p>27.1 Unless otherwise specified in the Contract, if after the date of 28 days prior to date of Bid submission, any law, regulation, ordinance, order or by law having the force of law is enacted, promulgated, abrogated, or changed in Mauritius (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the Delivery Date and/or the Contract Price, then such Delivery Date and/or Contract Price shall be correspondingly increased or decreased, to the extent that the Supplier has thereby been affected in the performance of any of its obligations under the Contract. Notwithstanding the foregoing, such additional or reduced cost shall not be separately paid or credited if the same has already been accounted for in the price adjustment provisions where applicable, in accordance with GCC Clause 14.</p>

28. Force Majeure	<p>28.1 The Supplier shall not be liable for liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.</p> <p>28.2 For purposes of this Clause, “Force Majeure” means an event or situation beyond the control of the Supplier that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Supplier. Such events may include, but not be limited to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.</p> <p>28.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.</p>
29. Extensions of Time	<p>29.1 If at any time during performance of the Contract, the Supplier or its subcontractors should encounter conditions impeding timely delivery of the Goods or completion of the related services, the Supplier shall promptly notify the Purchaser in writing of the delay, its likely duration, and its cause. As soon as practicable after receipt of the Supplier’s notice, the Purchaser shall evaluate the situation and may at its discretion extend the Supplier’s time for performance, in which case the extension shall be ratified by the parties by amendment of the Contract.</p> <p>29.2 Except in case of Force Majeure, a delay by the Supplier in the performance of its Delivery obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 24, unless an extension of time is</p>

	agreed upon, pursuant to GCC Sub-Clause 29.1.
30. Termination	<p>30.1 Termination for Default</p> <ul style="list-style-type: none"> a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part: b) if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to GCC Clause 29; c) if the Supplier fails to perform any other obligation under the Contract; or d) In the event the Purchaser terminates the Contract in whole or in part, pursuant to GCC Clause 30.1(a), the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Related Services similar to those undelivered or not performed, and the Supplier shall be liable to the Purchaser for any additional costs for such similar Goods or Related Services. However, the Supplier shall continue performance of the Contract to the extent not terminated. <p>30.2 Termination for Insolvency.</p> <p>The Purchaser may at any time terminate the Contract by giving notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to the Purchaser</p>
31. Assignment	<p>31.1 Neither the Purchaser nor the Supplier shall assign, in whole or in part, their obligations under this Contract, except with prior written consent of the other party.</p>

Section VII. Special Conditions of Contract

The following Special Conditions of Contract (SCC) shall supplement and / or amend the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC.

GCC 1.1(j)	The Purchaser is: Multi Carrier (Mauritius) Limited
GCC 3.2 (a)	The meaning of the trade terms shall be as prescribed by Incoterms 2010 and subsequent amendments.
GCC 3.2 (b)	The version edition of Incoterms shall be Incoterms 2010 and subsequent amendments.
GCC 7.1	<p>For <u>notices</u>, the Purchaser's address shall be:</p> <p style="text-align: center;">The Chief Executive Officer, Multi Carrier(Mauritius)Limited, Corner C. Charoux & Malherbes Streets, Curepipe Republic of Mauritius</p> <p>Telephone: (230) 670 8585</p> <p>Facsimile number: (230) 674 6547</p> <p>Electronic mail address: <u>queries@multi-carrier.net</u></p>
GCC 9.2	<p>The rules of procedure for arbitration proceedings pursuant to GCC Clause 9.2 shall be as follows:</p> <p><i>Contracts with foreign Supplier:</i></p> <p>In the case of a dispute between the Purchaser and a Foreign Supplier, the dispute shall be referred to arbitration in accordance with the laws of Mauritius.</p> <p>a) Any dispute arising out of this contract shall be finally resolved by arbitration.</p> <p>b) Where a party intends to refer a matter to arbitration under Sub Clause 9.1, it shall give notice of its intention to the other party.</p> <p>c) Where notice has been given under Sub Clause 9.2, the parties shall jointly agree on the nomination of an arbitrator.</p>

	d) Arbitration under Sub Clause 9.1 shall take place in Mauritius.
GCC 14.1	The prices charged for the Goods and Related Services supplied shall not be adjustable.
GCC 15.1	<p>The Purchaser's conditions for payment of the Contract Price is as specified below.</p> <p>The <u>Preferred Conditions</u> are:</p> <ul style="list-style-type: none"> a) 30% of the Order Price by Swift Transfer payable within 15 days following the Effective Date, and receipt of original invoice from Seller and Bank Guarantee for Advance Payment issued by a reputed commercial bank registered in Mauritius. b) 60% of the Order Price by swift transfer payable within 30 days after successful supply of all the goods and related services as stipulated in the Agreement. <p><u>The Mandatory Condition is:</u></p> <ul style="list-style-type: none"> c) 10% of the Order Price by Swift Transfer payable upon expiration of the warranty period and receipt of original copy of invoice from Seller, subject to all defects or other contractual problems having been resolved to the satisfaction of the Purchaser. <p>In the event the bidder is agreeable to furnish a bank guarantee for the amount of the 10% retention money at the time of placement of order and before payment of the 30% money at (a) above and to be valid for the period up to the end of warranty, the 10 % retention money will be released along with the 60% money at (b) above payable 30 days after shipment of all contracted Goods.</p> <p>Note 1: Bidders may propose alternative payment terms for the Preferred Conditions only.</p> <p>Note 2: Bidders must include in their Commercial Bids a Statement certifying that they accept the Purchaser's terms of payment with regard to the 10% Retention Money.</p>
GCC 21.1 & 22.2	<p>Responsibility for delivery and transportation of the Goods shall be as follows:</p> <ul style="list-style-type: none"> a) <u>For Manufacturers overseas</u> <p>On Carriage and Insurance Paid (CIP) basis, in accordance with Incoterms 2010 and subsequent amendments, and the final destination shall be SSR International Airport in Mauritius. The prices quoted should be inclusive of all duties and taxes in the country of shipment only.</p> b) <u>For a Subsidiary or Affiliate or Authorised Agent of a Manufacturer which is based and registered in Mauritius</u>

	<p><u>and which has submitted a bid:</u></p> <p>On Delivery Duty Paid (DDP) basis, in accordance with Incoterms 2010 and subsequent amendments, and the final destination shall be MCML. The prices quoted should be inclusive of all duties and taxes in the country of shipment and Mauritius.</p>
GCC 23.1	<p>Inspections and tests: The Supplier/Manufacturer shall carry out all standard factory tests on the goods to be designed, manufactured and supplied, under the supervision of the Purchaser or its representative, where applicable, and submit all the tests reports to the Purchaser or its representative for verification.</p>
GCC 24.1	<p>The liquidated damages shall be 0.5 % of the Contract value per week.</p> <p>The maximum amount of liquidated damages shall be 10% of the total Contract value.</p>
GCC 25.3	<p>The minimum period of Warranty on all the Goods supplied shall be two (2) years.</p>

Section VIII. Contract Forms

Table of Forms

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1. Contract Agreement

[The successful Bidder shall fill in this form in accordance with the instructions indicated]

THIS CONTRACT AGREEMENT is made the

.....

*[insert: **number**]* day of *[insert: **month**], [insert: **year**].*

BETWEEN

- (1)*[insert complete name of Purchaser], a Private Limited Company incorporated under the laws of Mauritius and having its principal place of business at.....[insert address of Purchaser]* (hereinafter called “the Purchaser”), and
- (2)*[insert name of Supplier], a company incorporated under the laws of.....[insert: country of Supplier] and having its principal place of business at.....[insert: address of Supplier]* (hereinafter called “the Supplier”).

WHEREAS the Purchaser invited bids for certain Goods and Related Services, viz.,

.....
.....
.....

.....*[insert brief description of Goods and Related Services]* and has accepted a Bid by the Supplier for the supply of those Goods and Related Services in the sum of.....

.....*[insert Contract Price in words and figures, expressed in the Contract currency)]* (hereinafter called “the Contract Price”).

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall constitute the Contract between the Purchaser and the Supplier, and each shall be read and construed as an integral part of the Contract:
 - a. This Contract Agreement
 - b. Special Conditions of Contract

- c. General Conditions of Contract
 - d. Technical Requirements (including Schedule of Requirements and Technical Specifications)
 - e. The Supplier's Bid and original Price Schedules
 - f. The Purchaser's Notification of Award
 - g.[Add here any other document(s)]
3. This Contract shall prevail over all other Contract documents. In the event of any discrepancy or inconsistency within the Contract documents, then the documents shall prevail in the order listed above.
 4. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the Goods and Related Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
 5. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of Mauritius on the day, month and year indicated above.

For and on behalf of the Purchaser

Signed:..... *[insert signature]*

in the capacity of.....*[insert title or other appropriate designation]*

in the presence of.....*[insert identification of official witness]*

For and on behalf of the Supplier

Signed:.....*[insert signature of authorized representative(s) of the Supplier]*

in the capacity of.....*[insert title or other appropriate designation]*

in the presence of.....*[insert identification of official witness]*

2. Bank Guarantee for Advance Payment

[The bank, as requested by the successful Bidder, shall fill in this form in accordance with the instructions indicated.]

Date: *[insert date (as day, month, and year) of Bid Submission]*

Procurement No. and title: *[insert number and title of bidding process]*

[bank's letterhead]

Beneficiary:.....*insert legal name and address of Purchaser]*

ADVANCE PAYMENT GUARANTEE No.:.....*[insert Advance Payment Guarantee no.]*

We,.....*[insert legal name and address of bank]*, have been informed that.....*[insert complete name and address of Supplier]* (hereinafter called "the Supplier") has entered into contract with you - Contract No.....*[insert number]* dated*[insert date of Agreement]* - for the supply of.....*[insert types of Goods to be delivered]* (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, an advance payment of 30% of the Contract Price is to be made against an advance payment guarantee.

At the request of the Supplier, we hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of*[insert amount(s) in figures and words]* upon receipt by us of your first demand in writing declaring that the Supplier is in breach of its obligation under the Contract because the Supplier used the advance payment for purposes other than toward delivery of the Goods.

It is a condition for any claim and payment under this Guarantee to be made that the advance payment referred to above must have been received by the Supplier on its account*[insert number and domicile of the account]*

This Guarantee shall remain valid and in full effect from the date of the advance payment received by the Supplier under the Contract until*[insert date]*.

This Guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 758.

[signature(s) of authorized representative(s) of the bank]

- *The bank shall insert the amount(s) specified in the SCC and denominated, as specified in the SCC, either in the currency(ies) of the Contract or a freely convertible currency acceptable to the Purchaser.*
- *Insert the Delivery date stipulated in the Contract Delivery Schedule. The Purchaser should note that in the event of an extension of the time to perform the Contract, the Purchaser would need to request an extension of this Guarantee from the bank. Such request must be in writing and must be made prior to the expiration date established in the Guarantee. In preparing this Guarantee, t subsequent amendments he Purchaser might consider adding the following text to the Form, at the end of the penultimate paragraph: "We agree to a one-time extension of this Guarantee for a period not to exceed [six months][one year], in response to the Purchaser's written request for such extension, such request to be presented to us before the expiry of the Guarantee."*

Technical Proposal Checklist Form

This Form is to be filled, signed and stamped with the bidder's corporate seal and submitted in the Technical Proposal.

Please indicate by a tick in the table below all the documents, which have been submitted in the Technical Proposal.

	Documents	Please tick
1	Company Profile	
2	Duly filled, signed and stamped Bidder Information Form	
3	<u>Manufacturer's Authorisation Certificate</u> for submitting a bid, supplying the Goods and providing maintenance support <u>for International or Local Subsidiaries/Affiliates/Authorised Agents of OEM</u>	
4	Any documentary evidence (example, from bidder's bank, etc.) to demonstrate that the bidder has the financial capacity to perform under the contract;	
5	ISO 9001:2015 Certificate for the Manufacturer's Company	
6	ISO 9001:2015 Certificate for the manufacturer's company for VRLA batteries	
7	Warranty Certificate	
8	Manufacturer's technical brochures & literatures, installation & operating manuals, drawings and circuit diagrams, data sheets, etc. to demonstrate compliance with technical specifications	
9	Self-Declaration Certificate that the bidder has <u>at least seven (7) years of experience</u> in the manufacturing and/or supplying of similar SMPS based Rectifier/Charger equipment as specified in the bid documents	
10	Copies of at least three (3) important Order Certificates or Completion Certificates executed by the Bidders for the supply of similar SMPS based Rectifier/Charger equipment as specified in the bid documents during the past five (5) years.	
11	Duly filled, signed and stamped Technical Compliance Table	
12	Deviation Statement Form	

13	The proposed programme/syllabus for factory training	
14	Duly filled, signed and stamped Technical Data sheet	
15	Duly filled, signed and stamped Technical Proposal Checklist Form	
16	Detailed technical specifications, charging, discharging & self-discharge characteristics of the proposed battery models and their Tables & Graphs for C/8, C/10 and C20 rate of discharge	
17	ISO/CE/UL certifications for Batteries	
18	Duly filled, signed and stamped Technical Data Sheet	
19	List of proposed spares in their respective quantities <u>without pricing information</u>	
20	Any other documents	

Name:.....

Post:.....

Signature:.....

Date:.....

Disclaimer: The list defined above is meant to assist the Bidder in submitting the relevant documents and shall not be a ground for the bidder to justify its non-submission of major documents for its bid to be responsive. The onus remains on the Bidder to ascertain that it has submitted all the documents that have been requested and are needed for its submission to be complete and responsive.

Commercial Proposal Checklist Form

The Form is to be filled, signed and stamped with the bidder's corporate seal and submitted in the Commercial Proposal.

Please indicate by a tick in the table below all the documents, which have been submitted in the Commercial Proposal.

	Documents	Please tick
1	Duly filled, signed and stamped Bid Submission Form	
2	Duly filled, signed and stamped Bid Security Form	
3	Duly filled, signed and stamped Price Schedule Form	
4	A statement certifying that bidder accepts the Purchaser's <u>mandatory</u> terms of payment with regard to the 10% Retention Money in accordance with GCC Sub Clause 15.1	
5	List of proposed spares in their respective quantities <u>together with their unit prices</u>	
6	Any other documents	

Name:.....

Post:.....

Signature:.....

Date:.....