भाकृअनुप - केन्द्रीय रोपण फसल अनुसंधान संस्थान
कासरगोड, केरल - 671 124, भारत
ICAR - Central Plantation Crops Research Institute
Kasaragod - 671 124 , Kerala, India
(An ISO 9001-2015 Certified Institution)
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F. No. PM-RKVY/2026-28-Stores Dated 20.11.2026

CORRIGENDUM

Bid No.: GEM/2026/B/8210765 dated 05.11.2026 – Procurement of Portable Photosynthesis with Fluorescence System

With reference to the above-mentioned GeM Bid, it is hereby informed that the entire scope of Lab Works mentioned under Buyer Added Bid Specific ATC (Clause 40), including concealing of wires/conduits, false ceiling work, putty finish and painting, supply and installation of wall fans and ceiling fans, and provision and installation of two new aluminium shutters, **is hereby excluded from the scope of the present procurement.** Accordingly, bidders are advised to submit their quotations excluding the entire cost of the aforesaid Lab Works. The existing and amended descriptions are given below:

Existing Description	Amended Description
Lab works: Concealing of wires/conduits inside walls in the lab, false ceiling work (Gypsum false ceiling with GI framework, jointing, finishing and painting: 380 sq.ft.), putty finish and painting (Approximate wall area: 936 sq.ft.), supply and installation of standard branded two wall fans and two ceiling fans, providing two new aluminium shutters etc.	The entire Lab Works described above stands excluded from the scope of the present procurement.

All other terms and conditions of the original bid shall remain unchanged. Bidders are requested to take note of the above amendment and quote accordingly.

S/d-
Head
ICAR-CPCRI, RS Vittal

ICAR-CENTRAL PLANTATION CROPS RESEARCH INSTITUTE

REGIONAL STATION, VITTAL - 574 243, KARNATAKA

Sl.No.	Description of Goods	Quantity required
1	**Portable Photosynthesis with Fluorescence System:** A portable Photosynthesis System measuring photosynthetic gas exchange and chlorophyll *a* fluorescence simultaneously in the same leaf area, ideal for field or lab work that should be include with control facility of CO_2, H_2O, Light, Temperature, Flow *etc*. **Specifications:** 1. CO_2 Gas Analyzer: • Type: Absolute non-dispersive infrared gas analyzer. • Number: two qty. • CO_2 measurement range: 0 to 3000 µmol mol^{-1} or better. • Precision/Resolution: ≤ 0.1 µmol mol^{-1} or better at ambient level. • CO_2 Control Range: 0-2000 µmol mol^{-1}. • Accuracy: Within 1% of reading at 200 µmol mol^{-1} or better. 2. H_2O Gas Analyzer: • Type: Absolute non-dispersive infrared gas analyzer. • Number: two qty. • H_2O measurement range: 0 to 75 mmol mol^{-1} or better. • Precision/Resolution: ≤ 0.01 mmol mol^{-1} or better. • H_2O Control Range: 0 to 90-100 % RH or better. • Accuracy: within 1.5% of reading at >5 mmol mol^{-1} or better. ➢ To allow real-time measurements with minimal delay, improved measurement stability and reduced potential for lag associated with extended tubing pathways, the IRGAs for CO_2 and H_2O must be located directly within the sensor head. 3. Temperature: • Operating Temperature Range: 0-50°C or better. • Temperature Control Range: Leaf Temperature: ± 10-12°C from ambient. • Air Temperature Sensor: Thermistor with Range: -10 to + 60°C or better; Accuracy: ± 0.2 °C or better. • Leaf temperature sensor: Sensitivity Range: -10 to + 60°C or better. Accuracy: < ± 0.5°C. 4. Pressure:	1 no.

	• Console pressure sensor: Range: 50 to 110 kPa or better with ± 0.4 kPa accuracy. Signal Noise: ≤ 0.004 kPa or better. • Chamber pressure sensor: Range: -1 to 2 kPa or better. Control Range: 0 - 0.1 kPa or better. 5. Light Measurement: • PAR measurement range: 0 to 3000 µmol m^{-2} s^{-1} with Accuracy: ± 5% or better. • Resolution: ≤ 1 µmol m^{-2} s^{-1}. • Light source must be suitable for all leaf areas. • PAR/Quantum Sensors (minimum 2 Nos.): one in the cuvette/chamber (Internal sensor) and one for Ambient (External sensor). 6. Photosynthesis measurement Parameters: • CO_2 absolute, CO_2 difference, H_2O absolute, H_2O difference, flow, ambient pressure, leaf temperature, ambient temperature, PAR, Evapotranspiration, VPD, stomatal conductance, Net photosynthesis, Intercellular CO_2 concentration *etc*. 7. Chlorophyll Fluorescence Measurement: • Saturation light intensity: 1-16,000 µmol m^{-2} s^{-1} or better for high light adapted leaf samples and large leaf area (6 cm^2 or better). • Blue actinic peak wavelength: 475 nm. • Red light peak wavelength: 625 nm. • Far-red peak wavelength: 735 nm with 0 –20 µmol m^{-2}·s^{-1} intensity. • Actinic light output: 0 – 3000 µmol m^{-2} s^{-1} total at 25°C. • The fluorometer should have modulated frequency: 1 Hz–250 kHz for high-resolution induction kinetics. • Should be capable for OJIP transient studies to study photophysical details of pigment LHC. • PAM fluorometer should integrate on leaf cuvette sensor head and not as separate instrument. • Chlorophyll Fluorescence parameters: Fo, Fm, Fm', F, Fo', Fv/Fm (max. PS II quantum yield), Y(NPQ), qP, qL, qN, NPQ, ETR *etc*. 8. Leaf Chambers: • The leaf chamber should have maximum leaf area of 9 cm^2 or better. • The system should be supplied with different Chamber Apertures to attain different measuring area. • Leaf chamber air flow rate: 0 - 1400 µmol s^{-1} or better. 9. Console: • Sunlight-readable high-resolution LCD display with capacitive	

	touch screen for display graphical and numeric measurement simultaneously in real time measurement. • Instrument should have self-diagnostic and alerts for any error with the measurement (e.g., air leak) and control settings (e.g., condensing RH, VPD) targets during measurement. • The system should have the options to connect external sensors such as soil temperature, soil moisture sensors etc. so that these parameters can be measured simultaneously with leaf gaseous exchange and chlorophyll fluorescence. • It should also have option to connect with multiple chambers. • User-cleanable optics and simple maintenance procedures to minimize down time and maintenance costs. ➢ Provision for measuring leaf gas exchange using the 'Dynamic Assimilation Technique' capable of recording fast measurements (10-15 seconds) along with reduced uncertainty in parameter estimates for high throughput applications. 10. Communication: • Ethernet port • 2 USB Port in the console or more. • Instrument configuration and data acquisition must have the ability to be remotely controlled through Ethernet connection. 11. Data storage: • Minimum 8 GB Flash memory with minimum 2 GB RAM. 12. Rechargeable battery: • Lithium ion rechargeable batteries for operation in field to work up-to >16 hours or better (03 number or more). 13. Accessories: • Tripod (1 No.), Chemicals: Soda lime for CO_2 scrub (1 bottle); Silica gel for H_2O scrub (1 bottles); 8g CO_2 cartridges (100 nos.); Single bay battery charger with adapter; Power supply to console. Printed manual. 14. Warranty: • The System must be quoted with minimum two year's warranty. ➢ All the modules of software should be from same/single manufacturer. ➢ There should be minimum five installations of the instrument in Indian Public Sector or CGIAR research institutes. The list should be provided. ➢ List of Five best publication having citation of the given instrument.	

Bid Number: GEM/2026/B/8210765
Dated: 20-11-2026

Bid Corrigendum

GEM/2026/B/8210765-C3

Following terms and conditions supersede all existing “Buyer added Bid Specific Terms and conditions” given in the bid document or any previous corrigendum. Prospective bidders are advised to bid as per following Terms and Conditions:

Buyer Added Bid Specific Additional Terms and Conditions

1. Actual delivery (and Installation & Commissioning (if covered in scope of supply)) is to be done at following address
   The Head
   ICAR CPCRI
   Rigional Startion
   Vittal
   Dakshina Kannada Karnataka-574243
   .
2. **Bidder financial standing:** The bidder should not be under liquidation, court receivership or similar proceedings, should not be bankrupt. Bidder to upload undertaking to this effect with bid.
3. Bidders shall quote only those products (Part of Service delivery) in the bid which are not obsolete in the market and has at least 2 years residual market life i.e. the offered product shall not be declared end-of-life by the OEM before this period.
4. Bidders are advised to check applicable GST on their own before quoting. Buyer will not take any responsibility in this regards. GST reimbursement will be as per actuals or as per applicable rates (whichever is lower), subject to the maximum of quoted GST %.
5. Data Sheet of the product(s) offered in the bid, are to be uploaded along with the bid documents. Buyers can match and verify the Data Sheet with the product specifications offered. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection.
6. **End User Certificate:** Wherever Bidders are insisting for End User Certificate from the Buyer, same shall be provided in Buyer’s standard format only.
7. Experience Criteria: The Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU for 3 years before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year. In case of bunch bids, the primary product having highest value should meet this criterion.
8. Installation, Commissioning, Testing, Configuration, Training (if any - which ever is applicable as per scope of supply) is to be carried out by OEM / OEM Certified resource or OEM authorised Reseller.
9. IT equipment shall be IPv6 ready from day one.
10. Malicious Code Certificate:

    The seller should upload following certificate in the bid:-
    (a) This is to certify that the Hardware and the Software being offered, as part of the contract, does not contain Embedded Malicious code that would activate procedures to :-
        (i) Inhibit the desires and designed function of the equipment.
        (ii) Cause physical damage to the user or equipment during the exploitation.
        (iii) Tap information resident or transient in the equipment/network.
    (b) The firm will be considered to be in breach of the procurement contract, in case physical damage, loss of information or infringements related to copyright and Intellectual Property Right (IPRs) are caused due to activation of any such malicious code in embedded software.

11. **Manufacturer Authorization:**Wherever Authorised Distributors/service providers are submitting the bid, Authorisation Form /Certificate with OEM/Original Service Provider details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid
12. **Non return of Hard Disk:** As per Buyer organization's Security Policy,Faulty Hard Disk of Servers/Desktop Computers/ Laptops etc. will not be returned back to the OEM/supplier against warranty replacement.
13. Scope of supply includes Training: Number of employees to be trained
    5
    , Place for Training
    ICAR-CPCRI, Reginal Station Vittal
    and Duration of training
    7
    days.
14. **Shelf Life:** The Product/Spare parts to be supplied as part of the services must have minimum
    10
    Shelf Life. On the date of supply, minimum
    10
    usable shelf life should be available / balance.
15. Supplier shall ensure that the Invoice is raised in the name of Consignee with GSTIN of Consignee only.
16. The successful bidder has to supply all essential accessories required for the successful installation and commissioning of the goods supplied. Besides standard accessories as per normal industry practice, following accessories must be part of supply and cost should be included in bid price:
    0
    .
17. 1. The Seller shall not assign the Contract in whole or part without obtaining the prior written consent of buyer.
    2. The Seller shall not sub-contract the Contract in whole or part to any entity without obtaining the prior written consent of buyer.
    3. The Seller shall, notwithstanding the consent and assignment/sub-contract, remain jointly and severally liable and responsible to buyer together with the assignee/ sub-contractor, for and in respect of the due performance of the Contract and the Sellers obligations there under.
18. Without prejudice to Buyer's right to price adjustment by way of discount or any other right or remedy available to Buyer, Buyer may terminate the Contract or any part thereof by a written notice to the Seller, if:
    i) The Seller fails to comply with any material term of the Contract.
    ii) The Seller informs Buyer of its inability to deliver the Material(s) or any part thereof within the stipulated Delivery Period or such inability otherwise becomes apparent.
    iii) The Seller fails to deliver the Material(s) or any part thereof within the stipulated Delivery Period and/or to replace/rectify any rejected or defective Material(s) promptly.
    iv) The Seller becomes bankrupt or goes into liquidation.
    v) The Seller makes a general assignment for the benefit of creditors.
    vi) A receiver is appointed for any substantial property owned by the Seller.
    vii) The Seller has misrepresented to Buyer, acting on which misrepresentation Buyer has placed the Purchase Order on the Seller.
19. While generating invoice in GeM portal, the seller must upload scanned copy of GST invoice and the screenshot of GST portal confirming payment of GST.
20. Scope of supply (Bid price to include all cost components) : Supply Installation Testing Commissioning of Goods and Training of operators and providing Statutory Clearances required (if any)
21. Bidder Turn Over Criteria: The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
22. OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the

date of constitution shall be taken into account for this criteria. In case of bunch bids, the OEM of CATEGORY RELATED TO primary product having highest bid value should meet this criterion.

23. IMPORTED PRODUCTS: In case of imported products, OEM or Authorized Seller of OEM should have a registered office in India to provide after sales service support in India. The certificate to this effect should be submitted.
24. Availability of Service Centres: Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty). If service center is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre.
25. Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.
26. Escalation Matrix For Service Support : Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.
27. Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.
28. ISO 9001: The bidder or the OEM of the offered products must have ISO 9001 certification.
29. Material Test Certificate Should Be Sent Along with The Supply. The Material Will Be Checked by Buyer’s Lab & the Results of the Lab will be the Sole Criteria for Acceptance of the Item.
30. The bidder is required to upload, along with the bid, all relevant certificates such as BIS licence, type test certificate, approval certificates and other certificates as prescribed in the Product Specification given in the bid document.
31. Bidder / OEM has to give an undertaking that after expiry of warranty period, it will provide Comprehensive Maintenance Service for next 3 years for the offered products at the rate not more than 5 % of contract price per annum. Buyer reserves the right to enter into a CMC agreement with the Successful Bidder / OEM after expiry of the Warranty period at above mentioned rate and the payment for the CMC charges would be made Biannually after rendering of the CMC Services of the relevant CMC period. Performance Security of the successful bidder shall be forfeited if it fails to accept the CMC contract when called upon by the buyer. CMC would include cost of
500
(Upload the undertaking). The original Performance Security of contract will be returned only after submission and verification of AMC Performance Security for 5% of total CMC value valid up to CMC period plus 2 months (if there is no other claim).
32. Warranty period of the supplied products shall be 2 years from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at consignee location. OEM Warranty certificates must be submitted by Successful Bidder at the time of delivery of Goods. The seller should guarantee the rectification of goods in case of any break down during the guarantee period. Seller should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in INDIA for attending the after sales service. Details of Service Centres near consignee destinations are to be uploaded along with the bid.
33. Successful bidder will have to ensure that adequate number of dedicated technical service personals / engineers are designated / deployed for attending to the Service Request in a time bound manner and for ensuring Timely Servicing / rectification of defects during warranty period, as per Service level agreement indicated in the relevant clause of the bid.
34. Timely Servicing / rectification of defects during warranty period: After having been notified of the defects / service requirement during warranty period, Seller has to complete the required Service / Rectification within 7 days time limit. If the Seller fails to complete service / rectification with defined time limit, a penalty of 0.5% of Unit Price of the product shall be charged as penalty for each week of delay from the seller. Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount from the Performance Security (PBG).Cumulative Penalty cannot exceed more than 10% of the total contract value after which the Buyer shall have the right to get the service / rectification done from alternate sources at the risk and cost of the Seller besides forfeiture of PBG. Seller shall be liable to re-imberse the cost of such service / rectification to the Buyer.
35. **Proof for Past Experience and Project Experience clause:** For fulfilling the experience criteria any one of the following documents may be considered as valid proof for meeting the experience criteria:a. Contract copy along with Invoice(s) with self-certification by the bidder that service/supplies against the invoices have been executed.b. Execution certificate by client with contract value.c. Any other document in support of contract execution like Third Party Inspection release note, etc.Proof for Past Experience and Project Experience clause: For fulfilling the experience criteria any one of the following documents may be considered as valid proof for meeting the experience criteria:a. Contract copy along with Invoice(s) with self-certification by the bidder that service/supplies against the invoices have been executed.b. Execution

certificate by client with contract value.c. Any other document in support of contract execution like Third Party Inspection release note, etc.

36. The Bidder / OEM {themselves or through reseller(s)}, should have executed project for supply and installation / commissioning of same or similar Category Products during preceding 3 financial years (i.e. current year and three previous financial years) as on opening of bid, as per following criteria:

    (i) Single order of at least 35% of estimated bid value; or
    (ii) Two orders of at least 20% each of estimated bid value; or
    (iii) Three orders of at least 15% each of estimated bid value.
    Satisfactory Performance certificate issued by respective Buyer Organization for the above Orders should be uploaded with bid. In case of bunch bids, the Category related to primary product having highest bid value should meet this criterion
37. Bidders can also submit the EMD with Account Payee Demand Draft in favour of
    ICAR UNIT CPCRI KASARAGOD
    payable at
    STATE BANK OF INDIA
    .
    Bidder has to upload scanned copy / proof of the DD along with bid and has to ensure delivery of hardcopy to the Buyer within 5 days of Bid End date / Bid Opening date.
38. Successful Bidder can submit the Performance Security in the form of Fixed Deposit Receipt also (besides PBG which is allowed as per GeM GTC). FDR should be made out or pledged in the name of
    ICAR UNIT CPCRI KASARAGOD
    A/C (Name of the Seller). The bank should certify on it that the deposit can be withdrawn only on the demand or with the sanction of the pledgee. For release of Security Deposit, the FDR will be released in favour of bidder by the Buyer after making endorsement on the back of the FDR duly signed and stamped along with covering letter. Successful Bidder has to upload scanned copy of the FDR document in place of PBG and has to ensure delivery of hard copy of Original FDR to the Buyer within 15 days of award of contract.
39. **NET WORTH:** Net Worth of the OEM should be positive as per the last audited financial statement.
40. Buyer Added text based ATC clauses

    The entire scope of Lab Works mentioned under Clause 40 of the Buyer Added Bid Specific ATC, including concealing of wires and conduits, false ceiling work, putty finish and painting, supply and installation of w all fans and ceiling fans, and provision and installation of two new aluminium shutters, is hereby deleted a nd excluded from the scope of the present procurement.

    Bidders shall submit their quotations excluding the entire cost of the aforesaid Lab Works.

    All other terms and conditions of the original bid shall remain unchanged. Bidders are requested to take n ote of this amendment and quote accordingly.

    .
41. Buyer uploaded ATC document Click here to view the file.

Disclaimer

The Additional Terms and Conditions (ATC) have been incorporated by the Buyer after approval of their Competent Authority. The Buyer ,is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any restriction arising in the bidding process due to these ATCs and including the modification of technical specifications and / or terms and conditions governing the bid.All representations / grievances pertaining to the ATC clauses shall be raised with the buyer organization directly and not with GeM.If any of the clause(s) is/are incorporated by the Buyer regarding the following, the bid & resultant contract shall be treated as null & void. Further, GeM reserves the right, at its sole discretion, to cancel the bid forthwith, without issuance of any prior notice or intimation :-

1. Publishing Custom / BOQ bids for items for which regular GeM categories are available (unless such Custom / BOQ item is bunched with the major regular product Category Item).
2. Mandating procurement of / from specific Brand / Make / Model / Manufacturer / Dealer except in case of Single Bid / Proprietary Article Certificate (PAC) Buying.
3. Inclusion of disqualification criteria related to suspension of seller / service provider, where such

suspension period has already expired.

4. Mandating submission of documents (other than EMD and signed Integrity Pact - which can be submitted within 5 days of bid opening) in physical form as a pre-requisite to qualify bidders.
5. Publishing bids on GeM for procurement of works.
6. Procurement of Goods by creating a Service bid on GeM & vice-versa.
7. Seeking sample with bid or approval of samples during bid evaluation process. However, trial / sample, as the case may be, shall be permitted in cases where trial / sample are allowed as per approved and published procurement policy of the Buyers' controlling Ministry / Department / State / Public Sector Enterprises Headquarters. If there is any violation of trial / sample clause with regard to approved policy of the Buyers' Ministry / Department / State / Public Sector Enterprises Headquarters, then this is to be determined and redressed by the concerned Buyer Organisation only.
8. Seeking experience from specific organization / department / institute only or from foreign / export experience.
9. Creating bid for items from incorrect categories.
10. Reference of conditions published on any external site or reference to external documents/clauses.
11. Asking for any Tender fee / Bid Participation fee, as the case may be.
12. Buyer added ATC Clauses which are in contravention of clauses defined in bid detail section, including specifications, EMD Detail, ePBG Detail and MII and MSE Purchase Preference sections of the bid, unless otherwise allowed by the applicable GeM GTC.
13. Any ATC clause in contravention with GeM GTC Clause 4 (xiii) (h) will be invalid. In case of multiple L1 bidders against a service bid, the buyer shall place the Contract by selection of a bidder amongst the L-1 bidders through a Random Algorithm executed by GeM system.
14. In a category based bid, adding additional items, through buyer added, additional scope of work/ additional terms and conditions/or any other document. If buyer needs more items along with the main item, the same must be added through bunching category based items or by bunching custom catalogues or bunching a BoQ with the main category based item, the same must not be done through ATC or Scope of Work.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

*This document shall overwrite all previous versions of Bid Specific Additional Terms and Conditions.

This Bid is also governed by the General Terms and Conditions