



भा.कृ.अनुप.-राष्ट्रीय आर्किड्स अनुसंधान केंद्र

ICAR-National Research Centre for Orchids

पाक्योंग-737106, सिक्किम, भारत

Pakyong – 737 106, Sikkim, India



F.No. NRC (O)/S/01/15-16/

Dated:

CORRIGENDUM CUM EXTENSION OF DUE DATE FOR INVITATION FOR BIDS

(a) Extension of Due Date

The due dates for submission of Sealed Bids for “**Supply of Equipments** invited vide **this letter no. NRCO)/S/01/15-16/378 dt: 03/07/2015** has been extended upto **31/08/2015**. The Bid documents along with specification for **Supply of Equipments** can be obtained from the office of the Director, NRC for Orchids, Pakyongon payment of **non-refundable fee of Rs.500/- (Rupees Fivehundred) only upto 29/08/2015, 1600 hours**. The Bids must be submitted **on or before 31/08/2015, 1400 hours** which will be opened on the **same day at 1500 hours**. Detailed Bid documents can also be downloaded from this Institute’s website <http://www.nrcorchids.nic.in>. The others Terms and condition will remain same.

(b) Corrigendum

With reference to this open tender notice **no. NRCO)/S/01/15-16/378 dt: 03/07/2015** for “**Supply of Equipments**” the following amendments are made in the SECTION – V TECHNICAL SPECIFICATION AND QUALITY CONTROL REQUIREMENTS of S.No4, Portable Photosynthetic Measurement.(can also be downloaded from this Institute’s website <http://www.nrcorchids.nic.in>)

Earlier written	Now to be read as under
<u>Specification:</u> Includes: <ul style="list-style-type: none">• Display: LCD graphic display CO₂ Analyzer: <ul style="list-style-type: none">• Range: 0-3000 $\mu\text{mol mol}^{-1}$• Accuracy: $\pm 5 \mu\text{mol mol}^{-1}$ from 0 to 1500 $\mu\text{mol mol}^{-1}$ H₂O Analyzer: <ul style="list-style-type: none">• Range: 0-75 mmol mol^{-1}• Accuracy: $\pm 1.0 \text{mmol mol}^{-1}$ from 0-75 mmol mol^{-1} Temperature <ul style="list-style-type: none">• Operating Temperature Range: 0 °C to 50 °C Air Flow <ul style="list-style-type: none">• Flow rate: 0 to 700 $\mu\text{mol s}^{-1}$ with CO₂ injector and 150 to 1000 $\mu\text{mol s}^{-1}$ without CO₂ injector Pressure <ul style="list-style-type: none">○ Pressure Range: 65 to 110 kPa.Accuracy: $\pm 0.1\%$. CO₂ Injector <ul style="list-style-type: none">• CO₂ Mixing Range: < 50 $\mu\text{mol mol}^{-1}$ to > 2000 $\mu\text{mol mol}^{-1}$• Operating Temperature Range: 0-50 °C	<u>Specification:</u> <ul style="list-style-type: none">• Should have separate, non-dispersive four (4) IRGA for reference and Sample CO₂ and H₂O• Display: LCD Graphic Display CO₂ Analyzer: 0 to >2000 $\mu\text{mol mol}^{-1}$ H₂O Analyzer: 0 to >50 mmol mol^{-1} Leaf temperature Measurement: Non-contact measurement Pressure Range: >100 kPa. CO₂ Injector/mixing/control: 50 $\mu\text{mol mol}^{-1}$ to > 2000 $\mu\text{mol mol}^{-1}$ Light Measurement: 0 to >3000 $\mu\text{mol m}^{-2}\text{s}^{-1}$. Accessories: <ol style="list-style-type: none">1. Leaf Chamber Fluorometer:<ul style="list-style-type: none">○ Pulse-amplitude modulated (PAM) fluorometer, measurements on both

<p>Light Measurement</p> <ul style="list-style-type: none"> • PAR Internal and External Chamber Sensors: • Range: 0 to > 3000 $\mu\text{mol m}^{-2} \text{s}^{-1}$ • Accuracy: $\pm 5\%$ <p>Accessories:</p> <ol style="list-style-type: none"> 1. Leaf Chamber Fluorometer: <ul style="list-style-type: none"> ○ Pulse-amplitude modulated (PAM) fluorometer that can be used to take measurements on both dark- and light-adapted samples ○ Measured parameters: F_o, F_m, F, F_m', and F_o'. Calculated parameters: F_v, F_v/F_m, F_v'/F_m', Φ_{PSII}, qP, qN, NPQ, and ETR. 2. Red/Blue LED Light Source: light intensity from 0 to 2000 $\mu\text{mol m}^{-2} \text{s}^{-1}$ 3. External Quantum Sensor, Narrow Leaf Chamber, Needle Chamber, Soil CO₂, Flux Chamber, Insect Respiration Kit, CO₂ and Soda Lime. 4. Rechargeable battery & Charger 5. CD/DVD/Software for training 6. Carry Case <p>Ethernet Connectivity</p>	<p>dark- and light-adapted samples</p> <ul style="list-style-type: none"> ○ Measured parameters: F_o, F_m, F, F_m', and F_o', F_v, F_v/F_m, F_v'/F_m', Φ_{PSII}, qP, qN, NPQ, and ETR. <ol style="list-style-type: none"> 2. Red/Blue LED Light Source: 0 to >2000 $\mu\text{mol m}^{-2} \text{s}^{-1}$ 3. External Quantum Sensor, Narrow Leaf Chamber, Needle Chamber, Soil CO₂ Flux chamber, Insect Respiration Kit, CO₂ cylinder and Soda Lime. 4. Ethernet connectivity, Cable and USB adapter. 5. Rechargeable batteries with battery charger. 6. CD/DVD/Software/Operating manual/ Training Kit. 7. Instrument should be truly portable and light weight. 8. Bidders with more than 5 years in handling such products will be preferred.
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(N.Sailo)

Asstt. Admn. Officer I/C

Copy to:

- 1) PA to Director, ICAR- NRC for Orchids, Pakyong, Sikkim.
- 2) Concerned Indenter Scientist, ICAR- NRC for Orchids, Pakyong, Sikkim.
- 3) Notice Board.