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LETTER OF AGREEMENT
between
International Rice Research Institute (IRRI)
and
AVA Development Society (AVADS)

I. Project description

Project Title:	Evaluating the Impact of Stress-Tolerant Rice Varieties Through Remote Sensing and Econometric Methods: Phase 2
PLA ID:	C-2022-250
Agreement ID:	A-2017-129
Name and address of partner institution:	AVA Development Society (AVADS) Village: Gopalpur, Upazila: Lalpur, District: Natore
Name of IRRI Scientist/Project Leader and contact details:	Dr. Humnath Bhandari Country Representative - Bangladesh International Rice Research Institute (IRRI) Email: h.bhandari@irri.org
Collaborating scientists/position title/contact details:	Md. Mesbahul Haque Program Coordinator AVA Development Society (AVADS) Email: mesbahulh@gmail.com
Project Activities:	In addition to the Amendment No. 1 of the LoA, the partner project leader – Mr. Md. Mesbahul Haque of AVADS will carry out the following additional activities during the LoA period. 1. AVADS will plan; design and conduct GPS plot location survey (under IRRI-RMS 2020 questionnaire) of 1500 Rice Monitoring Survey (RMS) farm households as per IRRI survey guidelines in the IRRI's selected locations (7 divisions, 30 districts, 75 sub-districts). 2. Will collect survey data along with GPS reading with appropriate measurements as per protocol provided by IRRI

International Rice Research Institute

IRRI is a member of the CGIAR Consortium

and send them to the server (survey solution). IRRI GPS protocol are stated below:

I. PROTOCOL

Approach B. If the operator can enter easily into the field (b). The center of the field is geotagged, and the approximate radius of the homogeneous area is recorded. 1 ha circle should be a radius of approximately 55 m and 2 ha a radius of 80 m.

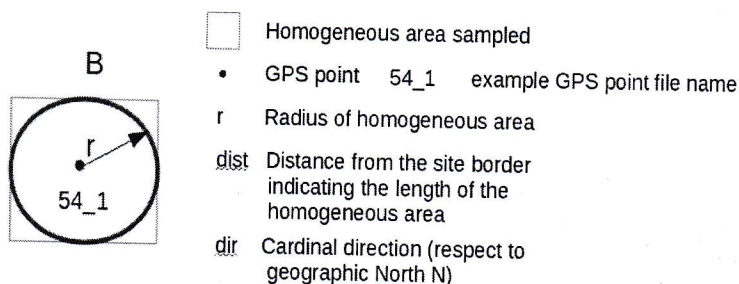


Figure 1. Field delineation with the GPS device

II. EQUIPMENT: Handheld GPS=Garmin Montana 680. Preferably tagged. (ex. Device ID 1-10)

III. WHO: Supervisor= GPS Data collector/ Enumerators= Tablet using CAPI

IV. GPS SETTING: Setup and calibration

- Need to Calibrate if device is **new** or if you are in a **different location** (Country)
 - Setup>Heading>Calibrate Compass
 - Follow instruction (rotation of device) until complete
- Check Date/Time & Language
 - Setup>Time>Time Format = 24 Hour
 - Setup>Time>Time Zone = Automatic
- Units: Setup>Units
 - Speed distance = Metric
 - Vertical Speed = Metric (m/min)
 - Elevation/Depth = Meters
- Position Format: Setup>Position Format
 - Position Format = Decimal Degrees (hddd.ddddd)
 - Map Datum = WGS 84 (universal coordinate ref. system)
 - Map Spheroid = WGS 84 (universal coordinate ref. system)

V. SATELLITE (before starting to collect check Satellites first)

- Main menu> Satellite (if more than 4 it is acceptable)

	• Take note of N(Lat) E (Long) and GPS m (accuracy) VI. WAYPOINT AVERAGING – Field list must be provided (RMS SPIA Panel HHID list) to the GPS collector and <u>should match</u> with GPS Device ID and Waypoint ID generated by the GPS (Table 1) • Go to the center of the field • Select Waypoint Averaging>Create Waypoint • Take note of the Waypoint ID • Average Time >30 seconds (is enough) • More accurate if Sample Confidence is 100% (this may take some time) • Click Save • Take notes on the field list table VII. EXPORT DATA • Use Garmin Basecamp or ask Aileen to download • Enumerators must enter the GPS information to the Interviewer app base the Field listing and according to the HHID. (Note that this is critical) • Enumerators can also Tap or get the GPS info while using the tablet as part of the validation process (should be in the Farmers plot not home). • Further validation: Exported data from Garmin can also be aggregated using STATA if dataset was already exported or completed. • If Enumerators will gather the GPS then device must be strictly assigned to them (not transferable). 3. Enumerators will physically visit 75 sub-districts of 7 divisions of Bangladesh and collect the accurate GPS data. 4. If necessary, conduct back check and Key Informants Interview (KII) at the selected locations. 5. Compile, check and edit collected data, and prepare technical and financial reports. Perform other activities related to the survey (upon decision of the project team).
Research Location (City and Country)	Selected 75 sub-districts of 7 divisions of Bangladesh
Commencement date:	07 November 2022
End date:	31 December 2022
Total budget:	BDT 1,140,000.00

II. Reporting Schedule

	Due Date	Report Type	Title of Report
1	31 December 2022	Technical	Progress Report
2	31 December 2022	Financial	Financial Report

III. Payment Schedule

	Currency	Amount	Due Date
1	BDT	1,026,000.00	(90%) Upon signing of the letter of agreement.
2	BDT	114,000.00	(10%) Upon submission of the final progress and financial liquidation report.

- 3.1 Funds shall be used exclusively for the purpose of implementing the project activity. Within thirty (30) days after completion of the activity, **AVA Development Society (AVADS)** shall return to IRRI any unutilized funds, which must be reflected in the financial statements. Financial report must follow the template as in the attached Annex 1 certified correct by the partner's authorized signatory for Finance. All Financial reports must be submitted via email to the following email address: subgrantreports@irri.org.
- 3.2 First payment shall be processed upon receipt of the signed LOA, subject to availability of funds. Subsequent releases, if any, will be subject also to availability of funds from the Bill & Melinda Gates Foundation, liquidation of at least 75% of the released funds, satisfactory delivery of agreed outputs/milestones, and satisfactory narrative and financial reports.
- 3.3 The partner institution shall not spend more than the amount of this agreement unless seconded by an amendment.

IV. General conditions

- 4.1 Results of the collaborative research will be jointly published in the public interest, to maximize impact. In case one of the Parties decides to protect valuable Foreground IP, the Parties will agree on suitable timeframe for publication.
- 4.2 The recipient shall keep all the documents and records related to this grant for the period of four (4) years after termination of the grant. IRRI or its duly authorized representative shall, within the project and aforesaid periods, have access to any of recipient's records related to this agreement to monitor and conduct evaluation of operations which may include: a visit by personnel or designee to observe recipient's structure and a review of financial and other records for the purpose of conducting audits.
- 4.3 The reporting requirements of the main donor **Bill & Melinda Gates Foundation** for the project supporting this subcontract, shall be deemed as incorporated in this LOA. IRRI and **AVA Development Society (AVADS)** shall coordinate and cooperate in gathering documents that may be required by the main donor in approving the costs associated with this LOA.

4.4 Intellectual Property Conditions

- i. All research materials used in the collaboration will be transferred using appropriate Material Transfer Agreements (hereinafter 'MTA') including SMTA¹ in line with CGIAR guidelines. Further, the transfer of biological materials, including breeding materials and germplasm, will be subject to pertinent stewardship, biosafety and bioprospecting laws, rules, and regulations. For incoming materials, IRRI may use such materials for non-commercial research and/or education purposes, and in this case, will give full credit to the source of the materials.
- ii. All Foreground IP, joint R&D results including data gathered in the course of, and as a result of, the implementation of the project such as, but not limited to reports, articles, research papers, data bases, tri-media presentations including joint R&D project outputs, joint R&D discoveries, joint R&D inventions and its digital copies (soft copies), shall be subject to the CGIAR Principles on the Management of Intellectual Assets ("CGIAR IA Principles")²:

Management of such IP shall also be in accordance with IRRI's Intellectual Property and Commercialization (IP&C) Policy.
- iii. The ownership of the intellectual property that existed prior to the commencement of this LOA ("Background IP"), held by one Party, shall remain the full property of that Party, and shall not be altered or transferred by virtue of this Agreement. This LOA does not confer any right on the use of the Background IP of either Party.
- iv. IRRI and **AVA Development Society (AVADS)**, agree that the results of the collaborative research and/or the Foreground IP can be used:
 - a. for non-commercial research and training conducted by IRRI and by 3rd party public research institute (hereinafter referred to as "Research Exemption"); or
 - b. for use in the event of a national or regional food security emergency limited to the duration of the emergency (hereinafter referred to as "Emergency Exemption"); or
 - c. for use in teaching activities by academic organizations (hereinafter referred to as "Teaching Exemption").
- v. Foreground IP generated in collaborative research shall be managed with the aim of reaching and achieving the greatest positive impact for the benefit of the rice farmers and rice food security
- vi. Each of the parties is free to use all data and information developed under this Agreement for the enhancement of their respective academic and research programs. Whenever applicable, the principal authors, researchers, and project leaders from both Parties shall be identified, recognized, and included in any publications arising from the joint R&D projects.

4.5 Confidentiality

¹ <http://www.fao.org/3/a-bc083e.pdf>),

² <https://library.cgiar.org/bitstream/handle/10947/4486/CGIAR%20IA%20Principles.pdf?sequ%20ence=1>

- a. A receiving Party (hereinafter "Recipient") shall not disclose Material marked "Confidential" or "Proprietary" to any third party nor use such Confidential Information for any purpose other than that given without written permission from the other Party.
- b. The Recipient shall use the same degree of care to protect Confidential Information received under this Agreement as it uses to protect its own information of a similar nature, but in any event not less than reasonable care under the circumstances.
- c. The Confidential Information shall be excluded from confidentiality if the Recipient can demonstrate that (a) it had possession of the information prior to disclosure; or (b) the information generally is available to the public at the time of disclosure, or becomes generally available, after disclosure, through no fault of Recipient; or (c) Recipient receives the information from a third party having the right to the information and who does not impose confidentiality.

4.6 Termination

Either Party may terminate this agreement unilaterally by giving notice of its intention to terminate at least thirty (30) days in advance of the intended effective date of termination. The **AVA Development Society (AVADS)** will refund to IRRI the grant funds if **AVA Development Society (AVADS)** terminates this agreement before it expires.

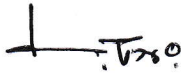
The parties have hereunto affixed their signatures on the dates indicated below to signify their conformity to the conditions set forth in this Letter of Agreement.

For the
International Rice Research Institute (IRRI)


Mr. Alvin Poncin
Chief of Staff & Head, Portfolio Development & Management Office

Date: 21 November 2022

For the
AVA Development Society (AVADS)


Md. Moklasur Rahman
Executive Director

Date: 23.11.2022

Bank information:

Payment for the account of:	AVA Development Society
Bank Account Number:	09712100020081
Bank Name and Address:	EXIM Bank Ltd., Lalpur Branch, Lalpur, Natore
Swift Code:	EXBKBDDH