

Infrastructure Development Company Limited (IDCOL)



REQUEST FOR PROPOSALS (RFP)

For

**Research and Development of Solar Cold Storage/Waste to Energy/
Solar Irrigation Projects suitable for Bangladesh**

Package No.: S-32 under REREDPII

Ref No.: IDCOL/REREDPII/S-32/2015/02

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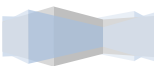


27 July 2015

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1. INTRODUCTION

Infrastructure Development Company Limited (IDCOL) was established on 14 May 1997 by the Government of Bangladesh. The Company was licensed by the Bangladesh Bank as a non-bank financial institution (NBFI) on 5 January 1998. Since its inception, IDCOL is playing a major role in bridging the financing gap for developing infrastructure and renewable energy (RE) projects in Bangladesh. The company now stands as the market leader in private sector infrastructure and renewable energy financing in Bangladesh.

Under renewable energy initiative, IDCOL started its Solar Home Systems Program in January 2003 with a view to providing access to electricity in the off-grid areas of the country. The program now stands as the largest off-grid renewable energy program of the world. IDCOL also has country-wide programs in domestic biogas, solar irrigation, solar mini-grid, biomass and biogas based electricity generation. IDCOL has recently taken initiative to finance energy efficient (EE) technologies under which nationwide Improved Cook Stove (ICS) program has been launched and some energy efficient brick kiln projects have also been financed.

IDCOL offers a comprehensive range of subsidy and concessionary loans to these viable renewable energy or energy efficiency programs/projects. In addition, IDCOL provides support for feasibility analysis, training and capacity building as well as promotion and awareness campaign. Many of the renewable energy technologies are technically viable and proven, but their initial investment costs are very high compared to those of fossil fuel based technologies. As such, renewable energy technologies are still evolving in terms of technological maturity and cost competitiveness.

2. OBJECTIVE

Looking at the increasing importance of renewable energy, IDCOL is willing to support research and development (R&D) activities with a view to improving the existing renewable energy technologies as well as exploring other viable renewable energy options in Bangladesh context. 100% grant fund will be provided to the approved R&D proposals. IDCOL recently received USD 1 million fund from the World Bank under Rural Electrification and Renewable Energy Development Project (REREDP) which will be used to support the R&D initiatives. Maximum fund to be allocated for any individual project is approximately BDT 75 lac. However, this may be relaxed to some extent for exceptionally good proposals on the basis of marked obtained in technical evaluation.

IDCOL published a Request for Expression of Interest (REoI) in January 2015 inviting local entities (universities, research institutes, Firms, NGOs, individuals etc.) to submit EoI for conducting R&D on renewable energy/energy efficiency technologies. IDCOL has already selected a number of proposals for R&D related to various renewable energy technologies.

IDCOL now intends to select proposals for conducting R&D on solar cold storage, waste to energy and prepaid billing system for irrigation. These technologies seemed to have very good potential for dissemination.



3. CONTENTS OF THE PROPOSALS

IDCOL invites Proposals from national entities (universities, research institutes, Firms, NGOs, individuals etc.) interested to conduct R&D activities for developing technologies on solar powered cold storage, waste to energy and remote monitoring & prepaid billing of solar irrigation system suitable for Bangladesh. IDCOL is interested to receive proposals for various technologies and business models which include the following:

- Solar energy (hybrid cold storage, energy efficient cold storage, remote monitoring & prepaid billing of solar irrigation system)
- Energy from biomass (combustion, anaerobic digestion or gasification, waste to energy, bio-sludge, biogas production efficiency, community biogas projects, landfill gas etc.)

The language of the content of the Proposals must be in English.

The Proposal must contain:

- a) Selection of the Technology: Identification of the technology
- b) Identification of the target group and description of the way to benefit them.
- c) Rationale of the project with expected output;
- d) Preparation of the Detailed Project Report (DPR): The DPR will provide details of the technology, project financials & financing mechanism, implementation schedule, cost-benefit analysis, etc.
- e) Implementation method of the project.

Note: The detail format is in Annex 1

4. EVALUATION PROCEDURE AND CRITERIA

An Evaluation Committee will evaluate the proposals. Evaluation would be carried out for each application area separately. This will be done in two phases:

1. Initial Screening for Technical Qualification;
2. Evaluation of Technical proposal

The proposal will be evaluated on the basis of the following criteria:

| SI No | Criteria | Marks |
|--------------|--|------------|
| 1 | Uniqueness, innovation, impact of application (scalability, business model etc.) | 30 |
| 2 | Qualification and track record of the applicant | 20 |
| 3 | Suitability of the proposed technology for Bangladesh | 20 |
| 4 | Quality of the overall proposal and methodology | 20 |
| 5 | Reasonableness of Project Cost | 10 |
| Total | | 100 |



5. EVALUATION COMMITTEE

The committee comprises of the renowned technical experts, representatives from Technical Universities, Sustainable and Renewable Energy Development Authority (SREDA), Economic Relations Division, Power Cell and IDCOL.

6. SUBMISSION OF THE PROPOSALS

The Proposals must be received no later than **27 August 2015 at 06:00PM (Bangladesh Standard Time)** and be forwarded to the following address in one sealed envelope:

Md. Maidul Islam
Officer, Procurement
Infrastructure Development Company Limited
Level-16, UTC Building, 8 Panthapath, Kawran Bazar, Dhaka-1215
Email: maidul@idcol.org; islammaidul@yahoo.com

7. SPECIAL NOTES

- IDCOL will consider the selected projects for financing for the demo phase. After positive results from the demo phase, IDCOL will take up the full-fledged subsequent implementation of the projects on regular basis.
- The investigator(s) may register the patent on the project developed/invented under the proposal. However, the researcher will not claim any royalty for dissemination of the technology by IDCOL or any other organization in Bangladesh or by IDCOL outside Bangladesh;
- Authenticity of the concept should be published by the principal investigator of the project with proper documentation.
- Any individual can't play the role of principal investigator in two of the selected projects. He/she may work as co-investigator in maximum of two other selected projects.
- IDCOL will negotiate with the investigator(s) to set the stage payment modality for implementing the selected projects.
- Individuals or Firms will particularly be responsible for copyright of project concept. In case of any issue raised regarding copyright breach, IDCOL shall not bear any responsibility, rather the Consultant will fully be responsible in this regard.



Annex 1: Detail format of the Proposal

1. Title of the Project
2. Principal Investigator

| SN | Item | Description (Not in essay form) |
|----|-----------------------------|---------------------------------|
| 1 | Background | |
| 2 | Educational qualification | |
| 3 | General Experience | |
| 4 | Experience in similar field | |
| 5 | Email | |
| 6 | Contact No. | |

3. Co-Investigator(s) [If any]
 - 3.1. Background and experience of the Co-Investigator including experience in similar field
 - 3.2. Email and Cell Number of Co-Investigator
4. Affiliation with university/organization
5. Contact (if other than the Principal Investigator)
6. Legal Status (Trade licence, Incorporation certificates, TIN certificate, Memorandum of Articles etc. as applicable)
7. Objectives of the project (Not in essay form)
 - a.
 - b.
8. Background and rationale for the proposed technology
9. Present state of the art – Use of the technology in other parts of the world for on commercial or semi-commercial basis (maybe with government subsidy) or on pilot basis
10. Description of the project
11. Selection of the technology
12. Methodology
13. Cost-Benefit Analysis
14. Impact of the project
15. Project Cost (according to the following format):

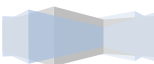
| SN | Items of Expenditure | Unit | Quantity | Estimated Cost | % of Estimated Cost |
|----------------------------------|-------------------------------------|------|----------|----------------|---------------------|
| a) Revenue Expenditure | | | | | |
| 1 | Allowance of principal investigator | | | | |
| 2 | Allowance of co-investigator(s) | | | | |
| 3 | Pay of Staff(s) | | | | |
| 4 | Supplies and Service | | | | |
| 5 | Repair and Maintenance | | | | |
| Total Revenue Expenditure | | | | | |

| SN | Items of Expenditure | Unit | Quantity | Estimated Cost | % of Estimated Cost |
|--|-----------------------------------|------|----------|----------------|---------------------|
| b) Capital Expenditure | | | | | |
| 6 | Acquisition of Asset 1 | | | | |
| 7 | Acquisition of Asset 2 | | | | |
| 8 | Acquisition of Asset 3 and so on. | | | | |
| Total Capital Expenditure | | | | | |
| Total Cost (a + b) | | | | | |
| c) Contingencies (maximum 2% of the total cost) | | | | | |
| Grand Total (a + b + c) | | | | | |
| | | | | | 100% |

Note: Overhead cost (such as Travel cost, stationeries, computers, printers, labor fee, Institutional cost etc.) should not be more than 15% of Capital Expenditure

16. Gantt chart for implementation timeframe

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Annex 2: Sample of Draft Agreement

Financing Agreement

This Financing Agreement has been executed on this ...day of, 2015 (hereinafter referred to as the 'Agreement')

BETWEEN

Infrastructure Development Company Limited (IDCOL), a non-bank financial institution, having its registered office at UTC Building (16th Floor), 8 Panthapath, Kawran Bazar, Dhaka 1215, Bangladesh, represented by [TBD] (hereinafter referred to as 'IDCOL' which includes his successors and assigns)

AND

[Name of the Consultant], having its address at [TBD], represented by its Principal investigator and [TBD], (hereinafter referred to as '[TBD]', which includes its successors and assigns)

WHEREAS

- A. IDCOL promotes dissemination of renewable energy technologies in Bangladesh and is currently financing different types of renewable energy based program/projects nationwide funded by various development partners;
- B. Pursuant to the Financing Agreement dated 30 June 2014 (Credit no 5514-BD) (Credit no 5158-BD) between the Government of Bangladesh ('GOB') and International Development Association ('IDA') and thereunder a Subsidiary Grant Agreement dated 15 September 2014 between GOB and IDCOL, IDCOL received financing for implementation of its Renewable Energy Programs as well as for supporting research and development (R & D) activities in Bangladesh;
- C. Pursuant to the invitation through Request for Expression of Interest ("EoI") for prospective R & D projects, the Consultant submitted its application for implementing the Project (defined below) and IDCOL has selected it through a competitive process on the basis of the conditions mentioned in the EoI. IDCOL has decided to extend grant support to the Consultant upto 100% of the Project Cost for conduction the research;

NOW therefore, IDCOL and the Consultant hereby have agreed to execute this Agreement on the following terms and conditions:



Section 1: DEFINITIONS AND INTERPRETATIONS

1.1. DEFINITIONS

The capitalized terms used in Agreement, unless otherwise defined shall have the following meaning:

- a. “Availability period” means, unless otherwise agreed by the parties in writing, the period that shall be available from the date of this Agreement to the date falling [TBD] months thereafter for IDCOL’s Grant under Section 3.01;
- b. “Business Day” means days during which Banks are open in Dhaka;
- c. “Disbursement” means the disbursement of Grant under section 5 which is disbursed from time to time by IDOCL to the Consultant under this Agreement;
- d. “Funding Entity” means IDA as mentioned in the preamble of this Agreement;
- e. “GOB” means Government of People’s Republic of Bangladesh
- f. “Grant” means the subsidy agreed to be provided by IDCOL to the Consultant for meeting the expenses related to the Project under this Agreement and sourced out of fund of the Funding Entity;
- g. “Disbursement Milestones” means the milestones mutually agreed between the parties as attached in Schedule 5 to this Agreement upon achievement of which disbursements will be made under section 5;
- h. “Project” means the research project as described in details in Schedule I to this Agreement which will be implemented by the Consultant under this Agreement;
- i. “Project Activities” includes procurement, installation, construction, operation and maintenance of the Project and implemented by the Consultant;
- j. “Project Cost” means costs of the Project for procurement of equipment, construction and other related works as described in Schedule II not exceeding [TBD] including all applicable taxes and government dues;
- k. “Termination Notice” means the notice to be given by either party to the other party under section 11

1.2. INTERPRETATIONS

In this Agreement, unless the context otherwise requires -

- (a) headings are for convenience only and do not affect the interpretation of this Agreement;
- (b) words importing the singular include the plural and vice versa;
- (c) a reference to a natural person includes any company, trust, joint venture, association, corporation or other body corporate and any authority;
- (d) a reference to a Section, Article, party or Schedule is a reference to that Section, Article, party or Schedule to this Agreement;

- (e) a reference to a document includes an amendment or supplement to, or replacement or novation of, that document but disregarding any amendment, supplement, replacement or novation made in breach of this Agreement; and
- (f) a reference to a party to a document includes that party's successors and permitted assigns.

Section 2: THE PROJECT

- 2.1. The Project under this Financing Agreement is meant to develop a Research and Development facility to: [TBD based on Project nature]

Section 3: IDCOL GRANT

- (b) IDCOL agrees to provide Grant up to 100% of Project Cost, but not exceeding [TBD] only to the Consultant and the Consultant agrees to receive these Grant in accordance with the terms and conditions of this Agreement.
- (c) IDCOL Grant shall be used exclusively to meet total Project Cost as agreed in Schedule-II.
- (d) Notwithstanding any other provisions in this Agreement, any un-disbursed Grant shall be cancelled and the Consultant shall not be eligible for the unutilized Grant.

Section 4: DISBURSEMENTS

- (a) The Consultant may request for Disbursement of the Grant under Section 3 by delivering to IDCOL, at least five (5) Business Days prior to the proposed date of Disbursement, through a Disbursement Request in form attached hereto as Schedule III, and a receipt substantially in form attached hereto as Schedule IV.
- (b) Upon submission of the Disbursement Request by The Consultant, IDCOL shall disburse the Grant in favour of The Consultant in its account mentioned in the Disbursement Request upon fulfilment of the Condition Precedents set forth in Section5;
- (c) The number of Disbursements shall not be more than 4 (four) subject to fund requirement and implementation progress of the Project and to be drawn within the Availability Period.
- (d) Notwithstanding anything contained in this Agreement, IDCOL shall disburse Grant only against the costs incurred by The Consultant at actual for the procurement, installation and construction of the Project as per the specification stated in Schedule VII.



Section 5: CONDITIONS PRECEDENT

A. Conditions Precedent for First Disbursement

In addition to the Conditions Precedent under Section 5 (B), the obligation of IDCOL to make first Disbursement to The Consultant is subject to, the fulfilment of following preconditions unless otherwise waived by IDCOL in writing:

- 1) copies of the following documents have been submitted:
 - (a) Resolution of Board of Trustees enabling The Consultant, if applicable:
 - (i) to carry out the Project Activities;
 - (ii) to enter into this Agreement;
 - (iii) to receive Grant from IDCOL hereunder
 - (iv) to nominate its Authorized Representative under section 14 and
 - (v) to authorise its authorized signatory with his specimen signature attached for execution of this Agreement;

B. Conditions Precedent for All Disbursements

Unless otherwise waived by IDCOL in writing, the obligation of IDCOL to make any Disbursement under this Agreement is subject to the fulfilment of following preconditions, namely that,

- 1) The Availability Period has not expired;
- 2) Numbers of the Disbursement Requests have not exceeded the maximum number of Disbursements as stated under Section 4 (c);
- 3) Disbursement Milestones as per Schedule 5 for respective Disbursement has been achieved;
- 4) supporting documents showing the utilization of the disbursed Grant as and when applicable e.g. money receipt, copy of Letter of Credit if any, distinctive photographs of the equipment procured and installed under the Project Activities have been delivered;
- 5) no Event of Default has occurred, is continuing or likely to occur;
- 6) Representations and Warranties made under section 6 of this Agreement are true on and as of the date of the relevant Disbursement;
- 7) no change in the condition of The Consultant has occurred which is likely to materially or adversely affect the operation of the Sub-project; and
- 8) no litigation or other proceedings has been current, or is likely to be instituted, which if adversely determined would materially affect the operation of the Project;



Section 6: REPRESENTATIONS AND WARRANTIES

6.1. The Consultant represents and warrants as follows:

(a) Status. it is a trust created under the Trust Act, 1882 and validly existing under the laws of the People's Republic of Bangladesh. It has license from the University of Grant Commission under the Private Universities Act 2010;

(b) Power. it has the power to own its assets, carry on its business as it is being conducted and to enter into and perform its obligations under this Agreement;

(c) Authority. it has the authority to enter into and perform, and has taken all necessary action to authorize the entering into, performance and delivery of, this Agreement, other Transaction Documents;

(d) Dedicated Staff. it has adequate and trained dedicated staff to operate the Project successfully;

(e) Validity. this Agreement constitutes, or when executed in accordance with its terms, shall constitute, its legal, valid and binding obligation enforceable against the Consultant in accordance with its terms and, so far, the Consultant is aware, is in full force and effect;

(f) No Conflict. the execution, delivery and performance by it of this Agreement shall not–

- (i) violate or conflict with any law, rule or regulation or governmental approval or judicial order to which it is subject in any material respect;
- (ii) violate or conflict with the constitutional documents of the Consultant;
- (iii) violate or conflict with any existing contractual undertakings of the Consultant with any third parties including public or private entities;
- (iv) cause any limitation on it or the powers of members of the board of trustees (whether imposed by any of its constitutional documents or by any law, order, judgement, agreement, instrument or otherwise) to be exceeded; or
- (v) oblige the Consultant to create or result in the existence of any Encumbrance over any of its assets or result in any breach of any law, order, judgement or agreement.

(g) Authorizations and Approvals. all material authorizations required in connection with entering into, performance and validity and enforceability of this Agreement have been obtained and are in full force and effect so far as the Consultant is aware and no steps have been taken to revoke or cancel any such authorizations obtained or effected;

(h) Immunity. the Consultant, its properties and assets do not enjoy any right of immunity from set-off, suit or execution in respect of its obligations under this Agreement;

(i) Proceedings. No litigation, arbitration or administrative or other proceedings are current, or to its knowledge, pending or threatened which, if adversely determined, would have a material adverse effect on the Project;

(l) Funding by others: it has not received any funding from any other donors or funding agencies to carry out the same Project Activities.

(m) Good title to assets:

- (i) the Consultant has good title to all its assets and possession over the assets that



will be used for the Project and there is no encumbrance over those assets of the Consultant and the Consultant is not a party to nor is it or any of its assets bound by any order, agreement or instrument under which the Consultant is or in certain events may be required to create, assume or permit to arise any encumbrance.

- (ii) the Consultant has all the necessary rights, easements, licenses and interests to enable it to use its assets for the Project;
- (n) *No misleading information*: the Consultant has disclosed fully in writing to IDCOL all facts relating to itself which it knows or should reasonably know and which are material for disclosure to IDCOL in the context of this Agreement.

6.2. The representations and warranties in Section 6.1 shall be deemed to be repeated, updated *mutatis mutandis* at each such date, on the date of each Disbursement Request, on the making of each disbursement and on the first day of each interest period.

Section 7: UNDERTAKINGS OF THE CONSULTANT

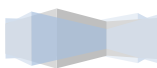
The Consultant undertakes that it:

- (a) shall procure that IDCOL be allowed access to inspect by itself, or jointly with GOB and/or Funding Entity, the Laboratory, Project Activities and any relevant records and documents;
- (b) shall furnish to IDCOL:
 - i. the implementation status showing the progress as per the Disbursement Milestones under Schedule V;
 - ii. such other additional financial or other information as IDCOL or any Funding Entity may from time to time request
- (c) shall carry out the Project Activities with due diligence and efficiency and in accordance with sound technical, economical, financial, managerial, environmental and social standards and practices satisfactory to IDCOL and the Funding Entity, including in accordance with the provisions of the Anti-Corruption Guidelines applicable;
- (d) shall enable IDCOL and any Funding Entity to inspect the Sub-project or Sub-project Activities, its operation and relevant records and documents at any time with or without any prior written notice.

Section 8 : EVENTS OF DEFAULT

8.1. It shall be an event of default on the part of the Consultant, if,

- (a) *Breach of Representations and Warranties*. it commits breach of any Representations and Warranties under Section 6
- (b) that IDCOL determines to have material and adverse effect on the Project;
- (c) *Breach of Undertakings*. it commits breach of any undertakings under Section 7 that IDCOL determines to have material and adverse effect on the Sub-project;



- (d) Government Action. GOB takes any action to nationalize, expropriate or confiscate the the Consultant and/or its assets;
- (e) Cessation of License: the license of the Consultant obtained from its regulatory authority and/or under any other law has been ceased or not renewed;
- (f) Insolvency proceedings by and/or against the Consultant. any insolvency, bankruptcy or reorganization proceedings is undertaken by the Consultant that has not been discharged within thirty (30) days of its institution;
- (g) Force majeure event. any force majeure events such as fire, riot, strike, earthquake, flood, cyclone and other natural perils occurs rendering the implementation of the Project fully or partially not possible for more than 90 days without restoration or repair.
- (h) Failure and/or Denial to operate.it fails and/or denies to performs its duties and obligations under section 2 and Section 7.

8.2. Upon the occurrence of any Event of Default, IDCOL shall have the right to suspend the undisbursed Grant under section 9 and/or terminate the Agreement under Section 10;

Section 9 : SUSPENSION OR CANCELLATION OF GRANT BY IDCOL

Notwithstanding anything contained in this Agreement, IDCOL may at any time suspend the un-disbursed amounts of all Grant immediately under this Agreement giving a written notice of 15 days to the Consultant, if -

- (a) the Consultant fails to draw the full sanctioned amount of Grant within the Availability Period and/or by maximum number of Disbursement Requests under Section 4 (c);
- (b) disbursements under the any grant agreement among GOB and any Funding Entity and any subsidiary grant agreement between GOB and IDCOL as referred to in the preamble to this Agreement is suspended or terminated for any reasons;
- (c) it becomes unlawful for IDCOL to give effect to any of its obligations under this Agreement;
- (d) a right of suspension or cancellation arises under Section 8.2
- (e) the GOB or any Funding Entity suspends or terminates the right of IDCOL to use the proceeds of the Grant for the Project;
- (f) the Consultant fails to perform any of its obligations under this Agreement;

Section 10 : TERMINATION OF THE AGREEMENT

- (a) Any party may terminate this Agreement by giving a 90 (ninety) days' notice in writing to the other party in the event of the failure by the other Party to perform any of its obligations under this Agreement amounts to a fundamental breach of this Agreement and fails to remedy the same within 90 days of receipt of the written notice ('Termination Notice');



- (b) Either Party shall be entitled to terminate the Agreement by giving a written notice if the other Party becomes bankrupt or otherwise insolvent.
- (c) In case of termination of this Agreement by the Consultant on any ground or by IDCOL on the ground any Event of Default and/or failure of the Consultant to remedy the default under this Agreement within the period of Termination Notice, IDCOL will have the right to take back the equipment procured and/or installed under this Agreement, provided that if the Consultant wants to retain the equipment, it will pay to IDCOL the depreciated value of the equipment at the time of termination by either party. The annual depreciation will be at the rate of 20% (twenty percent).

Section 11 : OWNERSHIP OF THE PROJECT AND ITS TECHNOLOGIES

Any studies, reports or other material, graphic, software, technology or otherwise developed by the Consultant under the Project shall belong and remain the property of the Consultant provided that the Consultant shall not claim any royalty for dissemination of the Project and/or the studies, reports or other material, graphic, software, its technologies or otherwise, technology relating to the Project:

- a. by any person within the territory of Bangladesh;
- b. by IDCOL irrespective of place, time and mode of dissemination

Section 12 : GOVERNING LAW AND JURISDICTION

This Agreement is governed by and shall be construed with the laws of the People's Republic of Bangladesh ("Governing Law") and the Court of Law of People's Republic of Bangladesh will have the exclusive jurisdiction in case of any dispute arisen between the parties under this Agreement.

Section 13 : ENTIRE AGREEMENT

This Agreement and other documents contemplated hereby shall supersede any prior expressions of intent or understandings with respect to the transactions contemplated herein.

Section 14 : AMENDMENT AND WAIVER

- (a) Any provision of this Agreement may be amended by mutual agreement of the parties in writing.
- (b) Any waiver of any right under this agreement must be in writing and signed by the parties.

Section 15 : AUTHORIZED REPRESENTATIVE

The Consultant may nominate its authorized representative in writing including but not limited to represent the Consultant, perform any undertakings, make communications and be communicated for any correspondence regarding this Agreement (the Authorized Representative) provided that neither the Consultant nor the Authorized Representative shall assign its rights and/or obligation under this Agreement without prior written consent of IDCOL.



Section 16 : COUNTERPART

There shall be 2 (two) original copies of this Agreement one of which will be retained by IDCOL and the other one shall be retained by the Consultant.

IN WITNESS WHEREOF THE PARTIES HAVE EXECUTED THIS MOU THROUGH THEIR AUTHORISED REPRESENTATIVES ON THE DATE AS MENTIONED BEFORE,

Witnesses:

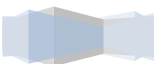
**For INFRASTRUCTURE
DEVELOPMENT COMPANY
LIMITED (IDCOL)**

1.

Executive Director and CEO, IDCOL

2.

For Consultant



Infrastructure Development Company Limited (IDCOL)
Level-16, UTC Building, 8 Panthapath, Kawran Bazaar, Dhaka
Telephone No.: 9102171-8, Fax No.: +880-2-8116663
REQUEST FOR PROPOSAL (RFP)

Assignment Title: *Selection of Individual or Firm for the Research and Development of Solar Cold Storage/Waste to Energy/Solar Irrigation Projects Suitable for Bangladesh*
Reference No. IDCOL/REREDPII/S-32/2015/02, Date: 27/07/2015

Looking at the increasing importance of renewable energy, IDCOL is willing to support research and development (R&D) activities with a view to improving the existing renewable energy technologies as well as exploring other viable renewable energy options in Bangladesh context. 100% grant fund will be provided to the approved R&D proposals. IDCOL recently received USD 1 million fund from the World Bank under Rural Electrification and Renewable Energy Development Project (REREDP)-II which will be used to support the R&D initiatives. IDCOL published a Request for Expression of Interest (REoI) in January 2015 inviting local entities (universities, research institutes, Firms, NGOs, individuals etc.) to submit EoI for conducting R&D on renewable energy/energy efficiency technologies. IDCOL has already selected a number of proposals for R&D related to various renewable energy technologies.

IDCOL now intends to select proposals for conducting R&D on solar cold storage, waste to energy and prepaid billing system for irrigation. These technologies seemed to have very good potential for dissemination. An Evaluation Committee will evaluate the proposals. Evaluation would be carried out for each application area separately. This will be done in two phases:

1. Initial Screening for Technical Qualification;
2. Evaluation of Technical proposal

The proposal will be evaluated on the basis of the following criteria:

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| 1 | Uniqueness, innovation, impact of application (scalability, business model etc.) | 30 |
| 2 | Qualification and track record of the applicant | 20 |
| 3 | Suitability of the proposed technology for Bangladesh | 20 |
| 4 | Quality of the overall proposal and methodology | 20 |
| 5 | Reasonableness of Project Cost | 10 |
| Total | | 100 |

The attention of Consultants is drawn to paragraph 1.9 of the World Bank's *Guidelines: Selection and Employment of Consultants* ("Consultant Guidelines"), setting forth the World Bank's policy on conflict of interest. Consultant will be selected in accordance with the Selection based on Consultant's Qualification (CQS) method set out in the Consultant Guidelines and contract will be lump-sum based. Further information can be obtained at the address below during office hours-10:00 AM to 06:00 PM (BST) and the interested firm may visit www.idcol.org for detail RFP of this assignment. Proposals must be delivered in a written form to the address below (in person, or by mail, or by e-mail) by **27 August 2015 at 06:00PM (BST)**.

Md. Maidul Islam
Officer, Procurement, Infrastructure Development Company Limited
Level-16, UTC Building, 8 Panthapath, Kawran Bazar, Dhaka-1215
Email: maidul@idcol.org; islammaidul@yahoo.com

