



APPLICATION FORM FOR SCHOLARSHIP THROUGH ICCR

**Application Made Through** : Bangladesh High Commission of India Dhaka  
**1. Full name (IN BLOCK LETTERS)** : Mr. MD ABU NAYEEM  
**2. Gender** : Male  
**3. Date of Birth** : 3/3/1998  
**4. Country** : Bangladesh  
**5. Country of Residence** : Bangladesh  
**6. Passport No** : EA0099567



**a) Date of Issue** : 12-3-2019  
**b) Date of Expiry** : 11-3-2024  
**c) Place of Issue**

**7. Postal Address** : Flat - 2, House - 42, Road - 6, Hirajheel R/A, Siddhirganj, Narayanganj

**a) City** : Narayanganj  
**b) State** : Dhaka  
**c) Country** : Bangladesh  
**d) Zipcode** : 1430

**8. Telephone/Mobile Number**

**Contact No** : + 1515259885

**Email Id** : abu.nayeem@outlook.com

**Permanent Unique ID of your country (Excluding Passport No.)** : 2405040219

**9. Details of Father/Mother/Guardian**

Name	Relation	Occupation	Country
MD OSMAN GANI	Father	Banker	Bangladesh

**Address** : Present Address : Flat - 2, House - 42, Road - 6, Hirajheel R/A, Siddhirganj, Narayanganj  
Permanent Address : VILL: TALTALA, P.O: EKDUARIA, THANA: MONOHARDI, DISTRICT: NARSINGDI

City	State	Country	Zipcode
Narayanganj	Dhaka	Bangladesh	1430

**10. Knowledge of English** : Yes

**Written: Good**

**Spoken: Good**

**Reading: Good**

**11. English Proficiency Test** : No

**12. Essey:**

The power and energy crisis is one of the critical problems in Bangladesh. As a developing nation, Bangladesh is thriving in every aspect, therefore the power demand is also rising. Bangladesh Power Development Board (BPDB) is struggling to deliver uninterrupted power and ensure customer satisfaction. Load shedding in urban areas is rare as important offices and industrial companies are situated there but rural areas in Bangladesh are experiencing power cuts three to four times a day. To mitigate this problem BPDB can produce more electricity by constructing new power stations or by importing electricity from neighboring countries e.g India, Myanmar, but these solutions are costly. In my proposed solution, BPDB can overcome the load shedding problem in rural areas by adopting renewable energy technology and by familiarizing the rural consumers with peer-to-peer energy trading technology. Unlike urban areas, rural localities have abundant lands which are available for constructing solar plants. BPDB can encourage consumers to earn profit by investing with their resources to participate in energy trading and become a prosumer through smart grid & net-metering technology. Prosumers can consume power when needed also can contribute their excess power to the grid. A smart microgrid will allow the consumers and prosumers to participate in energy trading. Consumers can buy their emergency power from prosumers through the smart grid. In this process, every consumer and prosumer will be equipped with a smart bi-directional meter that will be able to predict & decide if the prosumers have the surplus power to sell or have more power demand to buy power from a neighbor. As a smart microgrid will work here as an aggregator when a consumer will send a request to buy the power the smart microgrid will search for the prosumer who is available to sell its surplus power produced by renewable resources. After a successful connection, the microgrid will create a route for power exchange between prosumer and consumer. Upon successful power exchange, the microgrid will transfer the balance the prosumer has earned from the consumer. If there is no demand from the consumer side, the microgrid will buy the power and a grid-connected energy storage system (ESS) will store the surplus power of the prosumer and supply electricity when needed. In this smart microgrid network, both prosumer & consumer are not completely dependent on the national grid as they are now self-sufficient by peer-to-peer energy trading. During load shedding or power outage consumers in the smart microgrid network can easily buy power to get uninterrupted power. In conclusion, the proposed solution is environment friendly, cost-effective, and profitable for rural localities. Therefore, I firmly believe that the energy crisis in rural areas can be tackled through smart grid peer-to-peer energy trading technology.

### 13. Course applied for

Post Graduate

### Course Type

Engineering

### 14. Universities/Institutes in India where you wish to seek admission:

Note : ICCR provides scholarships only for courses in central or state government universities. Candidates should be very specific and clear about the course of study which he/she wishes to pursue in India. Scholarships are not available to pursue more than one course. Candidates should ensure that the courses listed here are offered by all five Universities listed under S.No.14. The candidates must refer to the University/Institute website to know the eligibility criteria for the courses of their choice. Those seeking admission to agricultural courses must opt for ICAR in the University choice. Please select University in order of preference.

Course you wish to study	University	Course Stream
M.Tech	IIT Madras	Power Systems & Power Electronics
M.Tech	IIT Delhi	Power Systems
M.Tech	IIT Bombay	Energy Science and Engineering
M.Tech	IIT Kharagpur	Power and Energy Systems
M.Tech	IIT Kanpur	Power Engineering

Note: Once admission is confirmed, no change in either course or University/Institute will be permitted by the Council.

Allotment of colleges is done by the respective Universities.

### 15. Previous Educational Qualifications

Certificate/Degree	Country	Name of School/University/Board	Year	Percentage(%) / Grade
Grade X (equivalent to Grade X in India)	Bangladesh	SIDDHIRGANJ REBATI MOHAN PILOT HIGH SCHOOL	2013	4.94 out of 5.00
Grade XII (equivalent to Grade XII in India)	Bangladesh	DR. MAHBUBUR RAHMAN MOLLAH COLLEGE	2015	5.00 out of 5.00
Undergraduate (equivalent to three years course after grade XII in India)	Bangladesh	AMERICAN INTERNATIONAL UNIVERSITY- BANGLADESH (AIUB)	2020	3.87 out of 4.00

16. Give below the names of two persons who have agreed to testify from their personal knowledge to your character (they must not be related to you and should have direct knowledge of your academic pursuits).

Reference 1

Name	Occupation	Email	Telephone	Postal Address
Md Saniat Rahman Zishan	Teacher	saniat@aiub.edu	8801720191713	American International University-Bangladesh (AIUB) 408/1, Kuratoli, Khilkhet, Dhaka-1229, Bangladesh

## Reference 2

Name	Occupation	Email	Telephone	Postal Address
Dr Md Rifat Hazari	Teacher	rifat@aiub.edu	880171214753	American International University-Bangladesh (AIUB) Room # (D0616) D Building, 5th Floor 408/1, Kuratoli, Khilkhet, Dhaka-1229, Bangladesh

## 17. Details of close relative(s) or friends, if any, in India.

Name	Relationship	Occupation	Telephone	Email	Postal Address

18. Have you travelled or lived in India in the past? Yes

19. Have you ever availed of ICCR Scholarship earlier? No

20. Are you currently a resident in India? No

21. Are you married to an indian national ? No

22. Do you have an International driving licence? No

23. Any Other Information: Passport Place of Issue : DIP / DHAKA & Applicants Mobile number: +8801515259885 & +8801718804000

Date: 17-05-2021

Place: Dhaka I hereby declare that the particulars given above are true to the best of my knowledge and belief and that I have understood the financial terms and conditions of the Scholarship Scheme. I hereby undertake to abide by them, and I also undertake

to return to my country after completion of my studies in India.

Signature

Abu Nayeem