# Notice Inviting Quotation (E-Procurement mode) कोटेशन को आमंत्रित करने की सूचना (इ-प्रोक्योमेंट मोड)

# INDIAN INSTITUTE OF TECHNOLOGY DELHI भारतीय प्रौद्योगिकी संस्थान दिल्ली HAUZ KHAS, NEW DELHI-110016 हौज ख़ास, नई दिल्ली -110016

Dated/ दिनांक: 28/03/2018

Open Tender Notice No. / खुला प्रस्ताव निविदा सूचना नंबर: IITD/BEEN(SP-1605)/2018

Indian Institute of Technology Delhi is in the process of purchasing following item(s) as per details as given as under.इंडियन इंस्टीट्यूट ऑफ टेक्नोलॉजी दिल्ली निम्नलिखित मदों की खरीद की प्रक्रिया में है।

	1. 5 kW <sub>p</sub> Solar PV array V <sub>oc</sub> = 400 V with booster and inverter of 5 kVA for single phase grid connected system.	
	2. $5 kW_p$ Solar PV array $V_{oc} = 450$ V without booster and with inverter of 5 kVA for single phase grid connected system.	
Details of the item आइटम का विवरण	3. $5 kW_p$ Solar PV array $V_{oc} = 750$ V without booster and with inverter of 5 kVA for three phase grid connected system.	
	*In each case we need two terminals from the Solar PV array up to the PG Machine Laboratory for experiment purpose (approx. length is 150 m).	
Earnest Money Deposit to be submitted बयाना जमा करने के लिए जमा राशि	NIL	
Warranty वारंटी अवधि	3 Years/3 साल	
Performance security निष्पादन सुरक्षा	NIL	

Tender Documents downloaded Central Public Procurement be from Portal may http://eprocure.gov.in/eprocure/app . Aspiring Bidders who have not enrolled / registered in e-procurement should enroll / register before participating through the website http://eprocure.gov.in/eprocure/app . The portal enrolment is free of cost. Bidders are advised to go through instructions provided at 'Instructions for online Bid Submission'. निविदा दस्तावेज केन्द्रीय सार्वजनिक खरीद पोर्टल http://eprocure.gov.in/eprocure/app से डाउनलोड हो सकते हैं ई-प्रोक्योरमेंट में पंजीकृत नहीं होने वाले इच्छुक बोलीदाताओं को वेबसाइट http://eprocure.gov.in/eprocure/app के माध्यम से भाग लेने से पहले पंजीकरण करना चाहिए। पोर्टल नामांकन मुफ्त है बोलीदाताओं को सलाह दी जाती है कि 'ऑनलाइन बोली के लिए निर्देश' पर दिए गए निर्देशों के माध्यम से जाने की सलाह दी जाए।

Tenderers can access tender documents on the website (For searching in the NIC site, kindly go to Tender Search option and type 'IIT'. Thereafter, Click on "GO" button to view all IIT Delhi tenders). Select the appropriate tender and fill them with all relevant information and submit the completed tender document online on the website <u>http://eprocure.gov.in/eprocure/app</u> as per the schedule given in the next page.

निविदाकर्ता वेबसाइट पर निविदा दस्तावेज का उपयोग कर सकते हैं (एनआईसी साइट में खोज के लिए, कृपया निविदा खोज विकल्प और 'आईआईटी' टाइप करें। उसके बाद, सभी आईआईटी दिल्ली निविदाओं को देखने के लिए "गो" बटन पर क्लिक करें) उपयुक्त निविदा का चयन करें और उन्हें सभी प्रासंगिक सूचनाओं से भरें और वेबसाइट पर http://eprocure.gov.in/eprocure/app पर पूरा निविदा दस्तावेज ऑनलाइन जमा करें। अगले पृष्ठ में दिए गए कार्यक्रम के अनुसार

No manual bids will be accepted. All quotation (both Technical and Financial should be submitted in the E-procurement portal).

कोई मैन्य्अल बोली स्वीकार नहीं की जाएगी। सभी कोटेशन (तकनीकी और वित्तीय दोनों को ई-प्रोक्योरमेंट पोर्टल में जमा करना चाहिए)

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oject Code: RP03357G and MI01668N
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days (From last date of opening of tender)
of. Bhim Singh, om No. II-118, Deptt. of Electrical Engineering, Indian stitute of Technology, uz Khas, New Delhi - 110016.
1-11-26591045(o)
91)-11- 26581606
imsinghiitd61@gmail.com

# SCHEDULE

Chairman Purchase Committee (Buyer Member)

# Instructions for Online Bid Submission/ ऑनलाइन बोली (बिड) के लिए निर्देश:

As per the directives of Department of Expenditure, this tender document has been published on the Central Public Procurement Portal (<u>URL:http://eprocure.gov.in/eprocure/app</u>). The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

व्यय विभाग के निर्देशों के अनुसार, यह निविदा दस्तावेज केंद्रीय सार्वजनिक प्रापण पोर्टल (यूआरएल: http: //eprocure.gov.in/eprocure/app) पर प्रकाशित किया गया है। बोलीदाताओं को मान्य डिजिटल हस्ताक्षर प्रमाण पत्र का उपयोग करते हुए सीपीपी पोर्टल पर इलेक्ट्रॉनिक रूप से अपनी बोलियों की सॉफ्ट प्रतियां जमा करना आवश्यक है। सीपीपी पोर्टल पर पंजीकरण करने के लिए निविदाकर्ताओं की सहायता करने के लिए नीचे दिए गए निर्देशों का मतलब है, सीपीपी पोर्टल पर आवश्यकताओं के अनुसार अपनी बोलियां तैयार करें और अपनी बोलियां ऑनलाइन जमा करें।

More information useful for submitting online bids on the CPP Portal may be obtained at:

अधिक जानकारी सीपीपी पोर्टल पर ऑनलाइन बोलियां जमा करने के लिए उपयोगी हो सकती है:

http://eprocure.gov.in/eprocure/app

# **REGISTRATION**

 Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL:<u>http://eprocure.gov.in/eprocure/app</u>) by clicking on the link "Click here to Enroll". Enrolment on the CPP Portal is free of charge.

बोलीदाताओं को "नामांकन के लिए यहां क्लिक करें" लिंक पर क्लिक करके सेंट्रल पब्लिक प्रोक्युरमेंट पोर्टल (यूआरएल: http: //eprocure.gov.in/eprocure/app) के ई-प्रोक्योरमेंट मॉड्यूल पर भर्ती करना आवश्यक है। सीपीपी पोर्टल पर नामांकन नि: शुल्क है

2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.

नामांकन प्रक्रिया के भाग के रूप में, बोलीदाताओं को अपने खाते के लिए एक अद्वितीय उपयोगकर्ता नाम चुनना होगा और एक पासवर्ड प्रदान करना होगा।

3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.

बोलीदाताओं को सलाह दी जाती है कि पंजीकरण प्रक्रिया के भाग के रूप में अपना वैध ईमेल पता और मोबाइल नंबर पंजीकृत करें। इन का उपयोग सीपीपी पोर्टल से किसी भी संचार के लिए किया जाएगा।

4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.), with their profile.

नामांकन पर, बोलीदाताओं को सीसीए इंडिया द्वारा मान्यता प्राप्त किसी प्रमाणन प्राधिकरण द्वारा जारी किए गए अपने मान्य डिजिटल हस्ताक्षर प्रमाण पत्र (कक्षा द्वितीय या कक्षा III प्रमाण पत्र के साथ महत्वपूर्ण उपयोग पर हस्ताक्षर करने) की आवश्यकता होगी (जैसे सिफी / टीसीएस / एनकोड / ई-मुद्रा आदि) , उनके प्रोफाइल के साथ

5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse.

केवल एक मान्य डीएससी एक बोलीदाता द्वारा पंजीकृत होना चाहिए। कृपया ध्यान दें कि निविदाकर्ता यह सुनिश्चित करने के लिए ज़िम्मेदार हैं कि वे अपने डीएससी को दूसरों को उधार नहीं देते हैं जिससे दूरुपयोग हो सकता है।

6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / eToken.

बोलीदाता फिर अपने यूजर आईडी / पासवर्ड और डीएससी / ईटीकेन के पासवर्ड को दर्ज करके सुरक्षित लॉग-इन के माध्यम से साइट पर लॉग ऑन करता है।

#### SEARCHING FOR TENDER DOCUMENTS/ निविदा दस्तावेजों के लिए खोजना

 There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, organization name, location, date, value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords etc. to search for a tender published on the CPP Portal.

सीपीपी पोर्टल में निर्मित विभिन्न खोज विकल्प हैं, ताकि बोलीदाताओं को कई मापदंडों से सक्रिय निविदाएं खोज सकें। इन मापदंडों में निविदा आईडी, संगठन का नाम, स्थान, तिथि, मूल्य आदि शामिल हो सकते हैं। निविदाओं के लिए उन्नत खोज का एक विकल्प भी है, जिसमें बोलीदाता कई नामों को जोड़ सकते हैं जैसे संगठन का नाम, अनुबंध का स्थान, स्थान, सीपीपी पोर्टल पर प्रकाशित निविदा की खोज के लिए तारीख, अन्य कीवर्ड आदि।

2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.

बोलीदाताओं ने एक बार निविदाएं चुनी हैं जिसमें वे रुचि रखते हैं, उसका वे आवश्यक दस्तावेज / निविदा कार्यक्रम डाउनलोड कर सकते हैं। ये निविदाएं 'मेरी निविदाओं' फ़ोल्डर में ले जाई जा सकती हैं। इससे सीपीपी पोर्टल को बोलीदाताओं को एसएमएस / ई-मेल के माध्यम से सूचित किया जा सकता है, यदि निविदा दस्तावेज में कोई शुद्धि जारी कि गई है।

3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

बोलीदाता को प्रत्येक निविदा को निर्दिष्ट अद्वितीय निविदा आईडी का नोट बनाना चाहिए, अगर वे हेल्पडेस्क से कोई स्पष्टीकरण / सहायता प्राप्त करना चाहते हैं।

# PREPARATION OF BIDS / बोली (बिड) की तैयारी

1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.

बोलीदाता को अपनी बोलियां जमा करने से पहले निविदा दस्तावेज पर प्रकाशित किसी भी शुद्धि को ध्यान में रखना चाहिए।

2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.

कृपया बोली के भाग के रूप में जमा किए जाने वाले दस्तावेजों को समझने के लिए निविदा विज्ञापन और निविदा दस्तावेज ध्यान से देखें। कृपया उन अंकों की संख्या पर ध्यान दें जिन में बोली दस्तावेज जमा करना है, दस्तावेजों की संख्या - जिसमें प्रत्येक दस्तावेज के नाम और सामग्री शामिल हैं, जिन्हें प्रस्तुत करने की आवश्यकता है। इनमें से कोई भी विचलन बोली को अस्वीकार कर सकता है।

3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF formats. Bid documents may be scanned with 100 dpi with black and white option.

बोलीदाता, अग्रिम में, निविदा दस्तावेज / अनुसूची में बताए अनुसार प्रस्तुत करने के लिए बोली दस्तावेज तैयार करना चाहिए और आम तौर पर, वे पीडीएफ / एक्सएलएस / आरएआर / डीडब्ल्यूएफ स्वरूपों में हो सकते हैं। बोली दस्तावेजों को 100 डीपीआई के साथ काले और सफेद विकल्प स्कैन किया जा सकता है।

4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

मानक दस्तावेजों के एक ही सेट को अपलोड करने के लिए आवश्यक समय और प्रयास से बचने के लिए जो प्रत्येक बोली के भाग के रूप में जमा करने के लिए आवश्यक हैं, ऐसे मानक दस्तावेज अपलोड करने का प्रावधान (जैसे पैन कार्ड कॉपी, वार्षिक रिपोर्ट, लेखा परीक्षक प्रमाण पत्र आदि) ) बोलीदाताओं को प्रदान किया गया है। ऐसे दस्तावेजों को अपलोड करने के लिए बोलीकर्ता उनके लिए उपलब्ध "मेरा स्पेस" क्षेत्र का उपयोग कर सकते हैं। बोली जमा करते समय ये दस्तावेज़ सीधे "मेरा स्पेस" क्षेत्र से जमा किए जा सकते हैं, और उन्हें बार-बार अपलोड करने की ज़रूरत नहीं है इससे बोली जमा प्रक्रिया के लिए आवश्यक समय में कमी आएगी।

#### SUBMISSION OF BIDS/ बोली (बिड) का जमा करना

1) Bidder should log into the site well in advance for bid submission so that he/she upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.

बोलीदाता को बोली प्रस्तुति के लिए अच्छी तरह से साइट पर लॉग इन करना चाहिए ताकि वह समय पर बोली अपलोड कर सके या फिर बोली प्रस्तुत करने के समय से पहले। अन्य मुद्दों के कारण किसी भी देरी के लिए बोलीदाता जिम्मेदार होगा।

2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.

बोलीदाता को निविदा दस्तावेज में दर्शाए अनुसार एक-एक करके आवश्यक बोली दस्तावेजों को डिजिटल हस्ताक्षर और अपलोड करना होगा।

3) Bidder has to select the payment option as "on-line" to pay the tender fee / EMD as applicable and enter details of the instrument. Whenever, EMD / Tender fees is sought, bidders need to pay the tender fee and EMD separately on-line through RTGS (Refer to Schedule, Page No.2).

बोलीदाता को निविदा शुल्क / ईएमडी को भुगतान के लिए "ऑन लाइन" के रूप में भुगतान विकल्प चुनना होगा और उपकरण का विवरण दर्ज करना होगा। जब भी, ईएमडी / निविदा शुल्क की मांग की जाती है, बोलीदाताओं को टेंडर शुल्क और ईएमडी अलग-अलग आरटीजीएस के माध्यम से ऑन लाइन पर भुगतान करने की आवश्यकता होती है (अन्सूची, पेज नं .2 देखें)।

4) A standard BoQ format has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. Bidders are required to download the BoQ file, open it and complete the white colored (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.

एक मानक BoQ प्रारूप को सभी बोलीदाताओं द्वारा भरने के लिए निविदा दस्तावेज प्रदान किया गया है। बोलीदाताओं को इस बात का ध्यान रखना चाहिए कि उन्हें आवश्यक प्रारूप में अपनी वित्तीय बोली जमा करनी चाहिए और कोई अन्य प्रारूप स्वीकार्य नहीं है। बोलीकर्ताओं को BoQ फाइल को डाउनलोड करने, इसे खोलने और अपने संबंधित वित्तीय उद्धरण और अन्य विवरण (जैसे बोलीदाता का नाम) के साथ सफेद रंगीन (असुरक्षित) कोशिकाओं को पूरा करना आवश्यक है। कोई भी अन्य कक्ष नहीं बदला जाना चाहिए। एक बार विवरण पूरा हो जाने पर, बोलीदाता को इसे सहेजना होगा और इसे ऑनलाइन जमा करना होगा, बिना फ़ाइल नाम बदलना। यदि BOQ फ़ाइल को बोलीदाता द्वारा संशोधित किया गया है, तो बोली को खारिज कर दिया जाएगा।

#### OR/ या

In some cases Financial Bids can be submitted in PDF format as well (in lieu of BOQ).

कुछ मामलों में वित्तीय बोलियां पीडीएफ प्रारूप में भी जमा की जा सकती हैं (BOQ के बदले)

5) The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.

सर्वर का समय (जो बोलीदाताओं के डैशबोर्ड पर प्रदर्शित होता है) बोलीदाताओं द्वारा बोलियों को खोलने के लिए समय सीमा को संदर्भित करने के लिए मानक समय के रूप में माना जाएगा। बोलीदाताओं को खोलना आदि। बोलीदाताओं को बोली प्रस्तुत करने के दौरान इस समय का पालन करना चाहिए।

6) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done.

बोलीदाताओं द्वारा प्रस्तुत सभी दस्तावेज पीकेआई एन्क्रिप्शन तकनीकों का उपयोग करके एन्क्रिप्ट किया जाएगा जिससे डेटा की गोपनीयता सुनिश्चित हो सके। दर्ज किए गए डेटा को अनधिकृत व्यक्तियों द्वारा बोली खोलने के समय तक नहीं देखा जा सकता है। बोलियों की गोपनीयता को सुरक्षित सॉकेट लेयर 128 बिट एन्क्रिप्शन तकनीक का उपयोग कर रखा जाता है। संवेदनशील क्षेत्रों का डेटा संग्रहण एन्क्रिप्शन किया जाता है।

7) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.

अपलोड किए गए निविदा दस्तावेज केवल अधिकृत बोलीदाता द्वारा निविदा खोलने के बाद ही पठनीय हो सकते हैं।

8) Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.

बोलियों के सफल और समय पर जमा होने पर, पोर्टल एक सफल बोली प्रस्तुत करने का संदेश देगा और एक बोली सारांश बोली संख्या के साथ प्रदर्शित किया जाएगा। और अन्य सभी प्रासंगिक विवरणों के साथ बोली प्रस्तुत करने की तारीख और समय।

9) Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet.

कृपया अनुपालन पत्रक की एक पीडीएफ फाइल में सभी प्रासंगिक दस्तावेजों के स्कैन किए गए पीडीएफ़ को जोड़ दें।

# ASSISTANCE TO BIDDERS / बोलीदाताओं को सहायता

1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.

निविदा दस्तावेज से संबंधित कोई भी प्रश्न और इसमें निहित नियमों और शर्तों को निविदा आमंत्रण प्राधिकरण को निविदा के लिए या निविदा में वर्णित प्रासंगिक संपर्क व्यक्ति से संबोधित किया जाना चाहिए।

2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is 1800 233 7315.

ऑनलाइन बोली प्रस्तुत करने या सामान्य में सीपीपी पोर्टल से संबंधित प्रश्नों की प्रक्रिया से संबंधित कोई भी प्रश्न 24x7 सीपीपी पोर्टल हैल्पडेस्क पर निर्देशित किया जा सकता है। हेल्पडेस्क के लिए संपर्क संख्या 1800 233 7315 है

# General Instructions to the Bidders / बोलीदाताओं के लिए सामान्य निर्देश

- The tenders will be received online through portal <u>http://eprocure.gov.in/eprocure/app</u>. In the Technical Bids, the bidders are required to upload all the documents in .pdf format.
   निविदाएं पोर्टल http://eprocure.gov.in/eprocure/app के माध्यम से ऑनलाइन प्राप्त होंगी तकनीकी बोलियों में, बोलीदाताओं को सभी दस्तावेजों को। पीडीएफ प्रारूप में अपलोड करना होगा।
- 2) Possession of a Valid Class II/III Digital Signature Certificate (DSC) in the form of smart card/e-token in the company's name is a prerequisite for registration and participating in the bid submission activities through https://eprocure.gov.in/eprocure/app. Digital Signature Certificates can be obtained from the certifving agencies. details of which are the authorized available in web site https://eprocure.gov.in/eprocure/app under the link "Information about DSC". कंपनी के नाम में स्मार्ट काई / ई-टोकन के रूप में मान्य क्लास ॥ / ॥। डिजिटल हस्ताक्षर प्रमाण पत्र (डीएससी) के पंजीकरण के लिए एक शर्त है और https://eprocure.gov.in/eprocure/ के माध्यम से बोली प्रस्तूत करने की गतिविधियों में भाग ले सकते है। डिजिटल हस्ताक्षर प्रमाण पत्र अधिकृत प्रमाणित एजेंसियों से प्राप्त की जा सकती है, जिनमें से जानकारी "डीएससी
  - के बारे में सूचना" लिंक के तहत वेब साइट https://eprocure.gov.in/eprocure/app पर उपलब्ध है।
- Tenderer are advised to follow the instructions provided in the 'Instructions to the Tenderer for the e-submission of the bids online through the Central Public Procurement Portal for e Procurement at https://eprocure.gov.in/eprocure/app.
   निविदाकर्ता को सलाह दी जाती है कि वे निविदाकार को निर्देश दिए गए हों ताकि ई-प्रोक्योरमेंट के लिए सेंट्रल पब्लिक प्रोकॉर्ममेंट पोर्टल के जरिए https://eprocure.gov.in/eprocure/app पर ऑनलाइन निविदाएं जमा कर सकें।

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# Electrical Department Indian Institute of Technology Hauz Khas, New Delhi-110 016

## **NOTICE INVITING QUOTATIONS**

Dated: 28/03/2018

#### Subject : Purchase of

- 1) 5 kW<sub>p</sub> Solar PV array  $V_{oc} = 400$  V with booster and inverter of 5 kVA for single phase grid connected system. (In the project **RP03357G**)
- 2) 5 kW<sub>p</sub> Solar PV array  $V_{oc} = 450$  V without booster and with inverter of 5 kVA for single phase grid connected system. (In the project **RP03357G**)
- 3) 5 kW<sub>p</sub> Solar PV array  $V_{oc} = 750$  V without booster and with inverter of 5 kVA for three phase grid connected system. (In the project **MI01668N**)

\* In each case we need two terminals from the Solar PV array up to the PG Machine Laboratory for experiment purpose (approx. length is 150 m).

#### **Invitation for Tender Offers**

Indian Institute of Technology Delhi invites online Bids (Technical bid and Commercial bid) from eligible and experienced OEM (Original Equipment Manufacturer) OR OEM Authorized Dealer for **supply, installation & integration of three 5** kW<sub>p</sub> Grid Connected Solar PV arrays with (warranty period as stated at page #1 of this tender) on site comprehensive warranty from the date of receipt of the material as per terms & conditions specified in the tender document, which is available on CPP Portal <u>http://eprocure.gov.in/eprocure/app</u>

#### **TECHNICAL SPECIFICATION:** Solar Photo Voltaic Modules:

- i) Solar photo voltaic module array shall consist of high efficiency Solar Modules utilizing Poly Crystalline high power Sillicon Solar Photovoltaic cells.
- Solar photovoltaic module shall NOT be LESS THAN 320 Wp (Max power sustained for more than 30 minutes) minimum with cells efficiency > 16% and module efficiency 14.5%.
- iii) Sample modules and production processes employed in the manufacture of the offered module shall be in accordance with the requirements of IEC 61215 Ed 2, IEC61730 Part 1 &2.
- iv) The module frame must be made of corrosion resistant materials, which is electrolytically compatible with the structural material used for mounting the module.
- v) Module Junction box (weather resistant shall be designed for long life out door operation in harsh environment.

- vi) Degradation of power generated should not be exceeding 20% of the min. rated power over the 25 year period.
- vii) Efficiency of solar PV system shall be guaranteed to 90% for up to 12 years & 80% for up to 25 years.

# Approved Make:

Suntech Solar/ Vikram/ Kyocera/ Sharp/ Jakson/ CEL/ Tata BP/ Eitek Valere/ Moser Boer/ BHEL/ Reliance/ equivalent approved.

# Mechanical Features:

- Anodized Aluminum Frame shall be provided around the module.
- The module shall be encapsulated with Ethyl Vinyl Acetate (EVA).
- ABS plastic terminal box shall be provided for the module output termination with gasket to prevent water moisture.
- The module shall be resistant to water, abrasion, hail impact, humidity & other environment factor for the worst situation at site.

# <u>Marking:</u>

Each module shall carry the following clear indelible marking:

- Name, monogram of manufacturer
- Type or module number
- Module serial number
- Polarity of terminals
- Date and place of manufacture.

# **Approved Make:**

# SMA/KACO/XENTRAX/OPS/PPS/DB POWER/Equivalent approved

# Specifications of the inverter/PCU:-

Switching devices	IGBT
Control	Microprocessor /DSP
Nominal AC output voltage and	415V, 3 Phase, 50 Hz (In case
frequency	single phase inverters suitable
	arrangement for balancing the
	phases must be made.)
Output frequency	50 Hz
Grid Frequency Synchronization	+ 3 Hz or more
range	
Ambient temperature considered	-20 <sup>°</sup> C to 55 <sup>°</sup> C
Humidity	95 % Non-condensing
Protection of Enclosure	IP-65(Minimum) Protection of
	Enclosure for outdoor.
Grid Frequency Tolerance range	+ 3 or more

No-load losses	Less than 1% of rated power
Inverter efficiency (minimum)	>90% (In case of less than 10
	kW)
THD	< 3%
PF	> 0.9

Make: GROWATT/ZEVER/SUNGROW/ SMA/KACO/XENTRAX/OPS/PPS/DB POWER/Equivalent approved

### **Cable and Accessories:**

- a) Cables should be FRLS PVC insulated copper conductor armoured MV Cables up to 1100 Volts grade as per IS: 1554/armoured PVC sheathed cables. Cable should be bright annealed 99% pure copper conductor, conductor shall be of electrolytic copper conforming to IS: 8130.
- b) DC cables should be 1C x 4sqmm flexible copper class-5, TUV certified solar cable make poly core.
- c) Minimum size of the cable as following :
- i) Array to junction box / PCU: 1 core x 4/6 sq mm stranded copper cables.
- ii) PCU to LT AC DB and metering panel: 2 core x 16 sq mm staranded copper XLPE armoured cables.
- iii) LTACDB and metering panel to main Grid DB : 3.5/4 core XLPE 35 sqmm stranded armoured cable.
- iv) Cable shall be laid on prefabricated GI cable trays and through suitable HD PE pipes.

#### **Earthing and protection:**

- i) The PV array structure shall be grounded properly using adequate (min 3 Nos.) number of connecting system. All metal casing / shielding of the plant shall be thoroughly grounded to ensure safety of the power plant. Earthing resistance shall be less than 5.0 ohms for individual anode and less than 1.0 Ohms for Grid in line with IE rules and as per IS:3043 code of practice for earthing.
- ii) GI strip of minimum size 5mm X 40mm shall be used for carrying earthing connection.
- iii) Proper earthing pit shall be made at locations approved by IIT Delhi.

#### Lightening Arrester:

To protect the system including use of Metal Oxide Varistors from heavy surge of lightes a suitable arrester to be provided with separate earthing system, so that induced transient find an alternate route to earth. Protection shall meet the safety rules.

#### SPV Panels Cleaning Facilities:

Bidder shall provide daily dusting & Water washing facilities, all necessary accessories for dusting shall be provided. Bidder shall also extend water line with suitable pressure pump for the roof top of single storied building and shall provide necessary rubber hose etc for washing the panels.

# LT Panel & AC Distribution Board:

Power conditioning unit converts DC energy produced by solar array to AC energy. The AC power output of the inverter shall be fed to the AC Distribution Board (metering panel & isolation panel) which also houses energy meter. The 415V AC +-10% output of the isolation panel is fed to the building load. AC energy is then synchronized with the grid power is fed into the system on continuous basis. **GENERAL:** 

- i) The scope of these specifications includes all civil works connected with the construction of buildings and other facilities described in the scope of work under special conditions of contract. CPWD specifications and relevant code may be followed for any work not covered under these specifications.
- All materials which may be used in the work shall be of standard quality manufactured by renowned concerns conforming to Indian Standard Specifications (Latest Edition) or equivalent and shall bear I.S.I. mark as far as possible unless otherwise approved by the PFC.
- iii) The contractor shall get all materials approved by the Engineer-in-Charge prior to procurement of the same in bulk and also before using in the works. For all major items/ materials used in the works (irrespective of the brand of material or proven source) necessary laboratory tests shall be conducted/ or test certificates from the manufacture shall be furnished by the contractor to ensure conformation of the material to specifications. The tests shall be conducted as directed by Engineer-in-Charge and in approved laboratory(s). The costs of all tests shall be borne by contractor. Additionally, for testing of materials like concrete, bricks, aggregates etc. which require continuous testing, contractor at his own cost and initiative, shall arrange for facilities for testing at site itself to ensure proper quality control at work site. Frequency of these testing shall be as per standard practice being followed in CPWD or as directed by PFC. A separate register shall be maintained indicating the details tests conducted reports from laboratories and tests conducted/ result at work site.
- iv) The Engineer-in-charge shall have the right to determine whether all or any of the materials are suitable for incorporation in the work. Any material procured or brought to site and not conforming to specifications and not upto the satisfaction of the Engineer-in-Charge shall be rejected and the contractor shall have to remove the same immediately from site at his own expenses and without any claim for comprehensive due to such rejection.

# PLAIN CONCRETE WORK:

Providing and laying cement concrete, grade of mix 1:1.5:3 (1 cement : 1.5coarse sand : 3 Graded stone aggregate 20mm nominal size), in foundation floors, bed of drains, including ramming, de-watering, shuttering, shoring, strutting, curing tec. Complete in all respects inclusive of cost of all labour, materials, tools, tackless etc. as per drawings specifications and direction f Site Engineer.

# **REINFORCED CEMENT CONCRETE:**

Providing and laying structure reinforce cement concrete work (1:5:3) conforming to IS :456 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)sat all height & depth for construction beams. Columns, staircase chajja, roof slabs, facia, canopies, fins porch, water tank etc. including providing centering, sjhuttering, staging scaffolding form work etc compacting with mechanical vibrator, curing etc. complete in all respects inclusive of cost of all labour, materials,

# **BRICK WORK:**

Brick work with bricks of class designation 50 in cement mortar 1:6 (1cement : 6 coarse sand) at all heights and depths laid to proper position line, level as per the drawing s and specifications including providing

necessary scaffolding, staging, raking out of joints, tackles etc. as per drawings, specifications and direction of Site Engineer.

# Structural Steel Work:

All steel members of the proposed structure for SPV system to be galvanized minimum 80 Microns. **Steel:** 

Mild steel reinforcement for cement concrete work shall conform to IS:1786 latest edition and shall be grade Fe500/415 as mentioned in the item description. The bars shall be procured from reputed / established rolling mills such as TATA Steel, SAIL, RINL or any other equivalent approved supplier.

# HCR/CRS Bars:

HCR (high corrosion resistant) corrosion resistant bars shall conform to IS-1786 latest edition and shall have a grade of Fe500. The bars shall be procured from reputed / established rolling mills such as SAIL, RINL, TATA.

## Structural Steel:

Structural steel sections & plates shall conform to Grade A of IS 2062 (latest edition). Steel shall be free from all grease, oil, paint, loose mill scale and rust and shall be free from all defects mentioned in IS 2062 and shall have a smooth uniform finished surface.

Contractor shall invariably produce test certificate from the manufacturer certifying the quality and strength of the steel to conform to the requirement of the aforesaid Indian Standards. In absence of such test certificate from the manufacture, test shall be carried out in a test House/ Laboratory or University as approved by the Engineer-in-charge and cost of such tests shall be borne by the contractor. Tests shall be carried out as per IS: 1599, 1608 and 1786 (latest edition).

### **Tubular Steel Truss:**

Steel tubes for tubular truss shall conform to the latest editions of IS: 1161. Tubes shall be clean finished and reasonably free from scale. They shall be free from cracks, surface flaws, laminations and other defects. The truss shall be as per drawing. Each truss may have two or three parts which shall be assembled properly and erected over columns. Contractor shall handle the truss carefully and observe all necessary precautions during erection of truss over columns. If any damage is caused during erection, the same shall be made good by the Contractor at his own cost. The truss shall be fixed to the columns with anchor plate, anchor bolts, etc. properly grouted into the columns as per drawing. Tubular purlins and bracing having splices welded at the ends, shall be assembled an erected at the locations as shown in drawings and directed by the Site Engineer.

All reinforcement bars shall be clean and free from dirt, oil, paints, grease, mill scales and loose rust. Bars available in coil shall be uncoiled and properly straightened to the satisfaction of the Engineer-in-charge at no extra cost to the owner.

# **FINISHING:**

Providing 15 mm thick plaster to internal & external walls at all heights/depths with cement mortar 1:6 (1cement : 6 fine sand) finished smooth / rough including raking out joints, rounding off and chamfering corners, making drip course molding, roughening of brick surface, curing for etc. complete as per specifications.

Supplying and applying two coats of acrylic washable distemper f approved brand, of required shade over a coat of distemper primer over plastered wall surface, including preparation of surface with putt, sand papering, scaffolding etc. complete in all respects inclusive of cost of all labour, materials tools tackles etc. as per manufacturer's recommendations, specification and direction of Site Engineer.

A complete set of tender documents\* may be Download by prospective bidder free of cost from the website <u>http://eprocure.gov.in/eprocure/app</u>. Bidder has to make payment of requisite fees (i.e. Tender fees (if any) and EMD) online through RTGS/NEFT only.

# **Terms & Conditions Details**

Sl. No.	Specification
1.	<b>Due date</b> : The tender has to be submitted on-line before the due date. The offers received after the
	due date and time will not be considered. No manual bids will be considered.
2.	Preparation of Bids: The offer/bid should be submitted in two bid systems (i.e.) Technical bid and
	financial bid. The technical bid should consist of all technical details along with commercial terms
	and conditions. Financial bid should indicate item wise price for the items mentioned in the
	technical bid in the given format i.e Financial Bids to be submitted in PDF format.
	The Technical bid and the financial bid should be submitted Online.
3.	<b>EMD</b> (if applicable): The tenderer should submit an EMD amount through RTGS/NEFT. The
	Technical Bid without EMD would be considered as UNRESPONSIVE and will not be accepted. The
	EMD will be refunded without any interest to the unsuccessful bidders after the award of contract.
	Refer to Schedule (at page 1 of this document) for its actual place of submission.
4.	<b>Refund of EMD</b> : The EMD will be returned to unsuccessful Tenderer only after the Tenders are
	finalized. In case of successful Tenderer, it will be retained till the successful and complete installation
	of the equipment.
5.	<b>Opening of the tender</b> : The online bid will be opened by a committee duly constituted for this
	purpose. Online bids (complete in all respect) received along with EMD (if any) will be opened as
	mentioned at "Annexure: Schedule" in presence of bidders representative if available. Only one
	representative will be allowed to participate in the tender opening. Bid received without EMD (if
	present) will be rejected straight way. The technical bid will be opened online first and it will be
	examined by a technical committee (as per specification and requirement). The financial offer/bid will
	be opened only for the offer/bid which technically meets all requirements as per the specification, and
	will be opened in the presence of the vendor's representatives subsequently for further evaluation. The
	bidders if interested may participate on the tender opening Date and Time. The bidder should produce
(	authorization letter from their company to participate in the tender opening.
6.	Acceptance/ Rejection of bids: The Committee reserves the right to reject any or all offers without
7.	assigning any reason.
7.	<ul> <li>Pre-qualification criteria:</li> <li>(i) Bidders should be the manufacturer / authorized dealer. Letter of Authorization from original</li> </ul>
	equipment manufacturer (OEM) on the same and specific to the tender should be enclosed.
	(ii) An undertaking from the OEM is required stating that they would facilitate the bidder on a
	regular basis with technology/product updates and extend support for the warranty as well. (Ref.
	Annexure-II)
	(iii) OEM should be internationally reputed Branded Company.
	(iv) Non-compliance of tender terms, non-submission of required documents, lack of clarity of the
	specifications, contradiction between bidder specification and supporting documents etc. may lead to
	rejection of the bid.
	(v) In the tender, either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself can
	bid but both cannot bid simultaneously for the same item/product in the same tender.
	(vi) If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on
	behalf of another Principal/OEM in the same tender for the same item/product.
8.	<b>Performance Security</b> : The supplier shall require to submit the performance security in the form of
	irrevocable bank guarantee issued by any Indian Nationalized Bank for an amount which is stated at
	page #1 of the tender document within 21 days from the date of receipt of the purchase order/LC and
	should be kept valid for a period of 60 days beyond the date of completion of warranty period.
9.	<b>Force Majeure:</b> The Supplier shall not be liable for forfeiture of its performance security, liquidated
	damages or termination for default, if and to the extent that, it's delay in performance or other failure to
	perform its obligations under the Contract is the result of an event of Force Majeure.

<ul> <li>such conditions and the cause thereof. Unless otherwise directed by the Prochaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.</li> <li>Risk Purchase Clause: In event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment within the stipulated delivery schedule, the supplier under risk purchase clause.</li> <li>Packing Instructions: Each package will be marked on three sides with proper paint/indelible ink, the following:         <ul> <li>item Nomenclature</li> <li>Order/Contract No.</li> <li>ii. Country of Origin of Goods</li> <li>iv. Supplier's Name and Address</li> <li>v. Consignee details</li> <li>vi. Packing Instructions: Each package will be made within a maximum of 12 to 16 weeks from the date of the opening of LC. Within 24 hours of shipment, the supplier shall notify the purchaser and the insurance company by cable/tek/fax/e mail the full details of the shipment including contract number, railway receipt number/ AAP etc. and date, description of goods, quantity, name of the consignee, invoice etc. The supplier shall mail the following documents to the purchaser with a copy to the insurance company:</li> <li>4 Copies of the Supplier invoice showing contract number, goods' description, quantity</li> <li>unstructure s/Supplier's warranty certificate;</li> <li>Inspection Certificate is sued by the nominated inspection agency, if any</li> <li>Supplier's factory inspection report; and</li> <li>Certificate of Origin (if possible by the beneficiary);</li> <li>The above documents should be exclused within the due date for any reason, the Committee will have the right to impose pen</li></ul></li></ul>		
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the category of concessional GST.		Department of Revenue, equipment purchased by IIT Delhi for research activities comes under
		the category of concessional GST.

	Concessional GST rates for such items are as below-
	• The rates of IGST shall be 5% in case of Import & interstate purchases.
	<ul> <li>The rates of CGST shall be 2.5% along with SGST 2.5% in case of purchases with in</li> </ul>
	state.
	state.
	In case of imports, the price should be quoted on FOB/FCA origin Airport Basis only. Under special circumstances (eg. perishable chemicals), when the item is imported on CIF/CIP, please
	indicate CIF/CIP charges separately upto IIT Delhi indicating the mode of shipment. IIT Delhi will
	make necessary arrangements for the clearance of imported goods at the Airport/Seaport. Hence the
	price should not include the above charges. At any circumstances, it is the responsibility of the
	foreign supplier to handover the material to our forwarder at the origin airport after completing
	all the inland clearing. No Ex- Works consignment will be entertained.
	"In case of <b>CIF/CIP</b> shipments, kindly provide the shipment information at least 2 days in advance
	before landing the shipment along with the documents i.e. invoice, packing list, forwarder Name,
	address, contact No. in India to save penalty/demurrage charges (imposed by Indian Customs) .
	Otherwise these charges will be recovered from the supplier/Indian Agent."
15.	<b>Notices:</b> For the purpose of all notices, the following shall be the address of the Purchaser and Supplier.
	Purchaser: Prof. Bhim Singh,
	Department of Electrical Engineering,
	Indian Institute of Technology
	Hauz Khas, New Delhi - 110016.
	<b>Supplier:</b> (To be filled in by the supplier)
	(All supplier's should submit its supplies information as per Annexure-II).
16.	Progress of Supply: Wherever applicable, supplier shall regularly intimate progress of supply, in
	writing, to the Purchaser as under:
	1. Quantity offered for inspection and date;
	2. Quantity accepted/rejected by inspecting agency and date;
	3. Quantity dispatched/delivered to consignees and date;
	4. Quantity where incidental services have been satisfactorily completed with date;
	5. Quantity where rectification/repair/replacement effected/completed on receipt of any
	communication from consignee/Purchaser with date;
	6. Date of completion of entire Contract including incidental services, if any; and
	7. Date of receipt of entire payments under the Contract (In case of stage-wise inspection, details
	required may also be specified).
17.	Inspection and Tests: Inspection and tests prior to shipment of Goods and at final acceptance are as
	follows:
	• After the goods are manufactured and assembled, inspection and testing of the goods shall be carried
	out at the supplier's plant by the supplier, prior to shipment to check whether the goods are in
	conformity with the technical specifications attached to the purchase order. Manufacturer's test
	certificate with data sheet shall be issued to this effect and submitted along with the delivery
	documents. The purchaser shall be present at the supplier's premises during such inspection and
	testing if need is felt. The location where the inspection is required to be conducted should be clearly
	indicated. The supplier shall inform the purchaser about the site preparation, if any, needed for
	installation of the goods at the purchaser's site at the time of submission of order acceptance.
	• The acceptance test will be conducted by the Purchaser, their consultant or other such person nominated by the Purchaser at its option after the equipment is installed at purchaser's site in the
	nominated by the Purchaser at its option after the equipment is installed at purchaser's site in the presence of supplier's representatives. The acceptance will involve trouble free operation and
	presence of supplier's representatives. The acceptance will involve trouble nee operation and

	assertaining conformity with the ordered anosifications and evolity. There shall not be say additional
	ascertaining conformity with the ordered specifications and quality. There shall not be any additional
	charges for carrying out acceptance test. No malfunction, partial or complete failure of any part of
	the equipment is expected to occur. The Supplier shall maintain necessary log in respect of the result
	of the test to establish to the entire satisfaction of the Purchaser, the successful completion of the test
	specified.
	• In the event of the ordered item failing to pass the acceptance test, a period not exceeding one weeks
	will be given to rectify the defects and clear the acceptance test, failing which the Purchaser reserve
	the right to get the equipment replaced by the Supplier at no extra cost to the Purchaser.
	• Successful conduct and conclusion of the acceptance test for the installed goods and equipment shall
	also be the responsibility and at the cost of the Supplier.
18.	<b>Resolution of Disputes</b> : The dispute resolution mechanism to be applied pursuant shall be as follows:
101	• In case of Dispute or difference arising between the Purchaser and a domestic supplier relating to any
	matter arising out of or connected with this agreement, such disputes or difference shall be settled in
	accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any
	statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. The dispute
	shall be referred to the Director, Indian Institute of Technology (IIT) Delhi and if he is unable or
	unwilling to act, to the sole arbitration of some other person appointed by him willing to act as such
	Arbitrator. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties
	to this order.
	• In the case of a dispute between the purchaser and a Foreign Supplier, the dispute shall be settled by
	arbitration in accordance with provision of sub-clause (a) above. But if this is not acceptable to the
	supplier then the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations
	Commission on International Trade Law) Arbitration Rules.
	• The venue of the arbitration shall be the place from where the order is issued.
19.	Applicable Law: The place of jurisdiction would be New Delhi (Delhi) INDIA.
20.	Right to Use Defective Goods
	If after delivery, acceptance and installation and within the guarantee and warranty period, the operation
	or use of the goods proves to be unsatisfactory, the Purchaser shall have the right to continue to operate
	or use such goods until rectifications of defects, errors or omissions by repair or by partial or complete
	replacement is made without interfering with the Purchaser's operation.
21.	Supplier Integrity
21.	The Supplier is responsible for and obliged to conduct all contracted activities in accordance with the
	Contract using state of the art methods and economic principles and exercising all means available to
	achieve the performance specified in the contract.
22.	Training
22.	8
	The Supplier is required to provide training to the designated Purchaser's technical and end user
- 22	personnel to enable them to effectively operate the total equipment.
23.	Installation & Demonstration
	The supplier is required to done the installation and demonstration of the equipment within one month
	of the arrival of materials at the IITD site of installation, otherwise the penalty clause will be the same
	as per the supply of materials.
	In case of any mis-happening/damage to equipment and supplies during the carriage of supplies from
	the origin of equipment to the installation site, the supplier has to replace it with new
	equipment/supplies immediately at his own risk. Supplier will settle his claim with the insurance
	company as per his convenience. IITD will not be liable to any type of losses in any form.
24.	<b>Insurance:</b> For delivery of goods at the purchaser's premises, the insurance shall be obtained by the
	supplier in an amount equal to 110% of the value of the goods from "warehouse to warehouse" (final
	destinations) on "All Risks" basis including War Risks and Strikes. The insurance shall be valid for a
	period of not less than 3 months after installation and commissioning. In case of orders placed on
	FOB/FCA basis, the purchaser shall arrange Insurance. If orders placed on CIF/CIP basis, the
	insurance should be up to IIT Delhi.
·	

25.	Incidental services: The incidental services also include:
25.	
	• Furnishing of 01 set of detailed operations & maintenance manual.
	• Arranging the shifting/moving of the item to their location of final installation within IITD premises
26	at the cost of Supplier through their Indian representatives.
26.	<ul> <li>Warranty:</li> <li>(i) Warranty period shall be (as stated at page #2 of this tender) from date of installation of Goods at the IITD site of installation. The Supplier shall, in addition, comply with the performance and/or consumption guarantees specified under the contract. If for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier shall at its discretion make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests. The warranty should be comprehensive on site.</li> <li>(ii) The Purchaser shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall immediately within in 02 days arrange to repair or replace the defective goods or parts thereof free of cost at the ultimate destination. The Supplier shall take over the replaced parts/goods at the time of their replacement. No claim whatsoever shall lie on the Purchaser for the replaced parts/goods thereafter. The period for correction of defects in the warranty period is 02 days. If the supplier having been notified fails to remedy the defects within 02 days, the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expenses and without prejudice to any other rights, which the purchaser may have against the supplier under the contract.</li> <li>(iii) The warranty period should be clearly mentioned. The maintenance charges (AMC) under different schemes after the expiry of the warranty should also be mentioned. The comprehensive warranty will commence from the date of the satisfactory installation/commissioning of the equipment against the defect of any manufacturing, workmanship and poor quality of the components.</li> </ul>
	<ul> <li>(iv) After the warranty period is over, Annual Maintenance Contract (AMC)/Comprehensive Maintenance Contract (CMC) up to next two years should be started. The AMC/CMC charges</li> </ul>
	will not be included in computing the total cost of the equipment.
27.	<b>Governing Language</b> The contract shall be written in English language. English language version of the Contract shall govern its interpretation. All correspondence and other documents pertaining to the Contract, which are exchanged by the parties, shall be written in the same language.
28.	Applicable Law The Contract shall be interpreted in accordance with the laws of the Union of India and all disputes shall be subject to place of jurisdiction.
29.	<ul> <li>Notices</li> <li>Any notice given by one party to the other pursuant to this contract/order shall be sent to the other party in writing or by cable, telex, FAX or e mail and confirmed in writing to the other party's address.</li> <li>A notice shall be effective when delivered or on the notice's effective date, whichever is later.</li> </ul>
30.	<b>Taxes</b> Suppliers shall be entirely responsible for all taxes, duties, license fees, octroi, road permits, etc., incurred until delivery of the contracted Goods to the Purchaser. However, VAT in respect of the transaction between the Purchaser and the Supplier shall be payable extra, if so stipulated in the order.
31.	<b>Duties</b> IIT Delhi is exempted from paying custom duty under notification No.51/96 (partially or full) and necessary "Custom Duty Exemption Certificate" can be issued after providing following information and Custom Duty Exemption Certificate will be issued to the shipment in the name of the Institute, (no

	contificate will be issued to third party). The areasured are duct the 11 here of for the line ' '''
	certificate will be issued to third party): The procured product should be used for teaching, scientific
	and research work only.
	a) Shipping details i.e. Master Airway Bill No. and House Airway No. (if exists)
	b) Forwarder details i.e. Name, Contact No., etc.
	IIT Delhi is exempted from paying Excise Duty and necessary Excise Duty Exemption Certificate will
	be provided for which following information are required.
	b) Quotation with details of Basic Price, Rate, Tax & Amount on which ED is applicable
	c) Supply Order Copy
	d) Proforma-Invoice Copy.
32.	Agency Commission: Agency commission if any will be paid to the Indian agent in Rupees on receipt
	of the equipment and after satisfactory installation. Agency Commission will not be paid in foreign
	currency under any circumstances. The details should be explicitly shown in Tender even in case of
	Nil commission. The tenderer should indicate the percentage of agency commission to be paid to the
	Indian agent.
33.	Payment:
	(i) For imported items Payment will be made through irrevocable Letter of Credit (LC) Cash Against
	Documents (CAD)/Against delivery/after satisfactory installation by T.T. Letter of Credit (LC)
	will be established in favour of foreign Supplier after the submission of performance security.
	The letter of credit (LC) will be established on the exchange rates as applicable on the date of
	establishment. For Imports, LC will be opened for 100% FOB/CIF value. 80% of the LC amount
	shall be released on presentation of complete and clear shipping documents and 20% of the LC
	amount shall be released after the installation and demonstration of the equipment at the INST site
	of installation in faultless working condition for period of 60 days from the date of the satisfactory
	installation and subject to the production of unconditional performance bank guarantee as specified
	in Clause 8 of tender terms and conditions.
	(ii) For Indigenous supplies, 100% payment shall be made by the Purchaser against delivery,
	inspection, successful installation, commissioning and acceptance of the equipment at IITD in good
	condition and to the entire satisfaction of the Purchaser and on production of unconditional
	performance bank guarantee as specified in Clause 9 of tender terms and conditions.
	(iii) Indian Agency commission (IAC), if any shall be paid after satisfactory installation &
	commissioning of the goods at the destination at the exchange rate prevailing on the date of
	negotiation of LC documents, subject to DGS&D registration for restricted items.
	(iv) All the bank charges within India will be borne by the Institute and outside India will be borne
	by the Supplier.
34.	User list: Brochure detailing technical specifications and performance, list of industrial and
	educational establishments where the items enquired have been supplied must be provided. (Ref.
	Annexure-III)
35.	Manuals and Drawings
	(i) Before the goods and equipment are taken over by the Purchaser, the Supplier shall supply
	operation and maintenance manuals. These shall be in such details as will enable the Purchaser to
	operate, maintain, adjust and repair all parts of the works as stated in the specifications.
	(ii) The Manuals shall be in the ruling language (English) in such form and numbers as stated in the
	contract.
	(iii) Unless and otherwise agreed, the goods equipment shall not be considered to be completed for the
	purposes of taking over until such manuals and drawing have been supplied to the Purchaser.
36.	Application Specialist: The Tenderer should mention in the Techno-Commercial bid the availability
	and names of Application Specialist and Service Engineers in the nearest regional office. (Ref. to
	Annexure-III)
37.	Site Preparation: The supplier shall inform to the Institute about the site preparation, if any, needed
57.	for the installation of equipment, immediately after the receipt of the purchase order. The supplier
	must provide complete details regarding space and all the other infrastructural requirements needed
	must provide complete details regarding space and an the other intrastructural requirements needed

	for the equipment, which the Institute should arrange before the arrival of the equipment to ensure its
	timely installation and smooth operation thereafter.
	The supplier shall visit the Institute and see the site where the equipment is to be installed and may
	offer his advice and render assistance to the Institute in the preparation of the site and other pre-
•	installation requirements.
38.	Spare Parts
	The Supplier may be required to provide any or all of the following materials, notifications, and
	information pertaining to spare parts manufactured or distributed by the Supplier:
	ii. Such spare parts as the Purchaser may elect to purchase from the Supplier, providing that this
	election shall not relieve the Supplier of any warranty obligations under the Contract; and
	iii. In the event of termination of production of the spare parts:
	iv. Advance notification to the Purchaser of the pending termination, in sufficient time to permit the
	Purchaser to procure needed requirements; and
	v. Following such termination, furnishing at no cost to the Purchaser, the blueprints, drawings and
	specifications of the spare parts, if requested.
	Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the Goods,
	such as gaskets, plugs, washers, belts etc. Other spare parts and components shall be supplied as
20	promptly as possible but in any case within six months of placement of order.
39.	<b>Defective Equipment</b> : If any of the equipment supplied by the Tenderer is found to be substandard,
	refurbished, un-merchantable or not in accordance with the description/specification or otherwise
	faulty, the committee will have the right to reject the equipment or its part. The prices of such
	equipment shall be refunded by the Tenderer with 18% interest if such payments for such equipment
	have already been made. All damaged or unapproved goods shall be returned at suppliers cost and risk
	and the incidental expenses incurred thereon shall be recovered from the supplier. Defective part in
	equipment, if found before installation and/or during warranty period, shall be replaced within 45 days
	on receipt of the intimation from this office at the cost and risk of supplier including all other charges.
	In case supplier fails to replace above item as per above terms & conditions, IIT Delhi may consider "Banning" the supplier.
40.	Termination for Default
<del>т</del> 0.	The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of
	default sent to the Supplier, terminate the Contract in whole or part:
	i. If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the order,
	or within any extension thereof granted by the Purchaser; or
	ii If the Supplier fails to perform any other obligation(s) under the Contract.
	iii If the Supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices
	in competing for or in executing the Contract.
	• For the purpose of this Clause:
	i. " <b>Corrupt practice</b> " means the offering, giving, receiving or soliciting of anything of value to
	influence the action of a public official in the procurement process or in contract
	execution.
	ii. <b>"Fraudulent practice</b> " means a misrepresentation of facts in order to influence a procurement
	process or the execution of a contract to the detriment of the Borrower, and includes
	collusive practice among Bidders (prior to or after bid submission) designed to establish
	bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits
	of free and open competition;""
	• In the event the Purchaser terminates the Contract in whole or in part, the Purchaser may procure,
	upon such terms and in such manner, as it deems appropriate, Goods or Services similar to those
	undelivered, and the Supplier shall be liable to the Purchaser for any excess costs for such similar
	Goods or Services. However, the Supplier shall continue the performance of the Contract to the
	extent not terminated.

41.	Shifting: After 1-2 years once our new Academic Block will be ready, the supplier has to shift and
	reinstall the instrument free of cost (if required).
42.	<b>Downtime:</b> During the warranty period not more than 5% downtime will be permissible. For every
	day exceeding permissible downtime, penalty of 1/365 of the 5% FOB value will be imposed.
	Downtime will be counted from the date and time of the filing of complaint with in the business hours.
43.	Training of Personnel: The supplier shall be required to undertake to provide the technical training
	to the personnel involved in the use of the equipment at the Institute premises, immediately after
	completing the installation of the equipment for a minimum period of one week at the supplier's cost.
44.	<b>Disputes and Jurisdiction</b> : Any legal disputes arising out of any breach of contract pertaining to this
	tender shall be settled in the court of competent jurisdiction located within New Delhi.
45.	Compliancy certificate: This certificate must be provided indicating conformity to the technical
	specifications. (Annexure-I)

# **COMPLIANCE SHEET**

# **TECHNICAL SPECIFICATION**

S. No.	Technical	Specification	Compliance Y/N
Solar l	Photo Voltaic Modules:	I	
i		sist of high efficiency Solar Modules utilizing Photovoltaic cells.	
ii	L	ESS THAN 320 Wp (Max power sustained for lls efficiency > 16% and module efficiency	
iii	module shall be in accordance with the req 1 &2.	employed in the manufacture of the offered uirements of IEC 61215 Ed 2, IEC61730 Part	
iv	compatible with the structural material used		
V	in harsh environment.	all be designed for long life out door operation	
vi	over the 25 year period.	bt be exceeding 20% of the min. rated power	
vii	up to 25 years.	ranteed to 90% for up to 12 years & 80% for	
Suntec	<b>ved Make</b> : h Solar/ Vikram/ Kyocera/ Sharp/ Jakson/ CE ce/ equivalent approved.	L/ Tata BP/ Eitek Valere/ Moser Boer/ BHEL/	
	nical Features:	I	
i	Anodized Aluminum Frame shall be provide		
ii	The module shall be encapsulated with Eth	yl Vinyl Acetate (EVA).	
iii	ABS plastic terminal box shall be provided to prevent water moisture.	for the module output termination with gasket	
iv	The module shall be resistant to water environment factor for the worst situation a	, abrasion, hail impact, humidity & other at site.	
<u>Marki</u>	ng:		
	nodule shall carry the following clear indelibl	e marking:	
i	Name, monogram of manufacturer		
ii	Type or module number		
iii	Module serial number		
iv	Polarity of terminals		
V	Date and place of manufacture.		
	<u>ved Make:</u> KACO/XENTRAX/OPS/PPS/DB POWER/E	quivalent approved	
<b>Specifi</b>	cations of the inverter/PCU:-		
	Switching devices	IGBT	
	Control	Microprocessor /DSP	
	Nominal AC output voltage and frequency	415V, 3 Phase, 50 Hz (In case single phase inverters suitable arrangement for balancing the phases must be made.)	

	Output frequency	50 Hz					
	Grid Frequency Synchronization	+ 3 Hz or more					
	range						
	Ambient temperature considered	$-20^{\circ}$ C to 55° C					
	Humidity	95 % Non-condensing					
	Protection of Enclosure	IP-65(Minimum) Protection of Enclosure for outdoor.					
	Grid Frequency Tolerance range	+ 3 or more					
	No-load losses	Less than 1% of rated power					
	Inverter efficiency (minimum)	> 90% (In case of less than 10 kW)					
	THD	< 3%					
	PF	> 0.9					
Make	GROWATT/ZEVER/SUNGROW/ SMA/K						
	R/Equivalent approved	ACO/ALIVIKAA/OI 5/11 5/DD					
	and Accessories:						
i		oper conductor armoured MV Cables up to 1100					
-		PVC sheathed cables. Cable should be bright					
	annealed 99% pure copper conductor,	, conductor shall be of electrolytic copper					
	conforming to IS: 8130.						
ii		e copper class-5, TUV certified solar cable make					
•••	poly core.						
iii	Minimum size of the cable as following :						
iv	Array to junction box / PCU: 1 core x 4/6 sq mm stranded copper cables.						
v	PCU to LT AC DB and metering panel: 2 core x 16 sq mm staranded copper XLPE						
<b>.</b>	armoured cables.         LTACDB and metering panel to main Grid DB : 3.5/4 core XLPE 35 sqmm stranded						
vi	armoured cable.	Trid DB : 3.5/4 core XLPE 35 sqmm stranded					
Farthi	ng and protection:						
<u> </u>		properly using adequate (min 3 Nos.) number					
1	i The PV array structure shall be grounded properly using adequate (min 3 Nos.) number of connecting system. All metal casing / shielding of the plant shall be thoroughly						
	grounded to ensure safety of the power plant. Earthing resistance shall be less than 5.0						
		1.0 Ohms for Grid in line with IE rules and as					
	per IS:3043 code of practice for earthing.						
ii	<b>ii</b> GI strip of minimum size 5mm X 40mm shall be used for carrying earthing connection.						
iii	Proper earthing pit shall be made at locati	ons approved by IIT Delhi.					
_	ning Arrester:						
-	•	Varistors from heavy surge of lightes a suitable					
		tem, so that induced transient find an alternate					
	e earth. Protection shall meet the safety rule anels Cleaning Facilities:	8.					
		a facilities all necessary accessories for dusting					
	Bidder shall provide daily dusting & Water washing facilities, all necessary accessories for dusting shall be provided. Bidder shall also extend water line with suitable pressure pump for the roof top						
	le storied building and shall provide necess						
	nel & AC Distribution Board:						
Power	conditioning unit converts DC energy produ	ced by solar array to AC energy. The AC power					
		oution Board (metering panel & isolation panel)					
		-10% output of the isolation panel is fed to the					
		with the grid power is fed into the system on					
	ious basis.						
<u>GENE</u>	KAL:						

		r
i	The scope of these specifications includes all civil works connected with the construction	
	of buildings and other facilities described in the scope of work under special conditions	
	of contract. CPWD specifications and relevant code may be followed for any work not	
	covered under these specifications.	
ii	All materials which may be used in the work shall be of standard quality manufactured	
11	by renowned concerns conforming to Indian Standard Specifications (Latest Edition) or	
	equivalent and shall bear I.S.I. mark as far as possible unless otherwise approved by the	
	PFC.	
iii	The contractor shall get all materials approved by the Engineer-in-Charge prior to	
	procurement of the same in bulk and also before using in the works. For all major items/	
	materials used in the works (irrespective of the brand of material or proven source)	
	necessary laboratory tests shall be conducted/ or test certificates from the manufacture	
	shall be furnished by the contractor to ensure conformation of the material to	
	specifications. The tests shall be conducted as directed by Engineer-in-Charge and in	
	approved laboratory(s). The costs of all tests shall be borne by contractor. Additionally,	
	for testing of materials like concrete, bricks, aggregates etc. which require continuous	
	testing, contractor at his own cost and initiative, shall arrange for facilities for testing at	
	site itself to ensure proper quality control at work site. Frequency of these testing shall	
	be as per standard practice being followed in CPWD or as directed by PFC. A separate	
	register shall be maintained indicating the details tests conducted reports from	
	laboratories and tests conducted/ result at work site.	
iv	The Engineer-in-charge shall have the right to determine whether all or any of the	
	materials are suitable for incorporation in the work. Any material procured or brought to	
	site and not conforming to specifications and not upto the satisfaction of the Engineer-in-	
	Charge shall be rejected and the contractor shall have to remove the same immediately	
	from site at his own expenses and without any claim for comprehensive due to such	
	rejection.	
PI AIN	CONCRETE WORK:	
-	ng and laying cement concrete, grade of mix 1:1.5:3 (1 cement : 1.5coarse sand : 3 Graded	
	ggregate 20mm nominal size ), in foundation floors, bed of drains, including ramming, de-	
	g, shuttering, shoring, strutting, curing tec. Complete in all respects inclusive of cost of all	
	materials, tools, tackless etc. as per drawings specifications and direction f Site Engineer.	
	<u>'ORCED CEMENT CONCRETE:</u>	
	ng and laying structure reinforce cement concrete work (1:5:3) conforming to IS :456 (1	
	: 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)sat all height & depth for	
	ction beams. Columns, staircase chajja, roof slabs, facia, canopies, fins porch, water tank	
	luding providing centering, sjhuttering, staging scaffolding form work etc compacting with	
mechan	ical vibrator, curing etc. complete in all respects inclusive of cost of all labour, materials,	
BRICK	<u>X WORK:</u>	
Brick w	vork with bricks of class designation 50 in cement mortar 1:6 (1cement : 6 coarse sand) at	
all heig	hts and depths laid to proper position line, level as per the drawing s and specifications	
	ng providing necessary scaffolding, staging, raking out of joints, tackles etc. as per	
	ss, specifications and direction of Site Engineer.	
	ural Steel Work:	
	el members of the proposed structure for SPV system to be galvanized minimum 80	
Micron		
Steel:		
	eel reinforcement for cement concrete work shall conform to IS:1786 latest edition and	
	e grade Fe500/415 as mentioned in the item description. The bars shall be procured from	
-	/ established rolling mills such as TATA Steel, SAIL, RINL or any other equivalent	
approve	ed supplier.	1

HCR/CRS Bars: HCR (high corrosion resistant) corrosion resistant bars shall conform to IS-1786 latest edition and shall have a grade of Fe500. The bars shall be procured from reputed / established rolling mills	
such as SAIL, RINL, TATA.	
Structural Steel:	
Structural steel sections & plates shall conform to Grade A of IS 2062 (latest edition). Steel shall	
be free from all grease, oil, paint, loose mill scale and rust and shall be free from all defects	
mentioned in IS 2062 and shall have a smooth uniform finished surface.	
Contractor shall invariably produce test certificate from the manufacturer certifying the quality	
and strength of the steel to conform to the requirement of the aforesaid Indian Standards. In	
absence of such test certificate from the manufacture, test shall be carried out in a test House/	
Laboratory or University as approved by the Engineer-in-charge and cost of such tests shall be	
borne by the contractor. Tests shall be carried out as per IS: 1599, 1608 and 1786 (latest edition).	
Tubular Steel Truss:	
Steel tubes for tubular truss shall conform to the latest editions of IS: 1161. Tubes shall be clean	
finished and reasonably free from scale. They shall be free from cracks, surface flaws, laminations	
and other defects. The truss shall be as per drawing. Each truss may have two or three parts which	
shall be assembled properly and erected over columns. Contractor shall handle the truss carefully	
and observe all necessary precautions during erection of truss over columns. If any damage is	
caused during erection, the same shall be made good by the Contractor at his own cost. The truss	
shall be fixed to the columns with anchor plate, anchor bolts, etc. properly grouted into the columns	
as per drawing. Tubular purlins and bracing having splices welded at the ends, shall be assembled	
an erected at the locations as shown in drawings and directed by the Site Engineer.	
All reinforcement bars shall be clean and free from dirt, oil, paints, grease, mill scales and loose	
rust. Bars available in coil shall be uncoiled and properly straightened to the satisfaction of the	
Engineer-in-charge at no extra cost to the owner.	
FINISHING:	
Providing 15 mm thick plaster to internal & external walls at all heights/depths with cement mortar	
1:6 (1cement : 6 fine sand) finished smooth / rough including raking out joints, rounding off and	
chamfering corners, making drip course molding, roughening of brick surface, curing for etc.	
complete as per specifications.	
Supplying and applying two coats of acrylic washable distemper f approved brand, of required	
shade over a coat of distemper primer over plastered wall surface, including preparation of surface	
with putt, sand papering, scaffolding etc. complete in all respects inclusive of cost of all labour,	
materials tools tackles etc. as per manufacturer's recommendations, specification and direction of	
Site Engineer.	

I have also enclosed all relevant documents in support of my claims, (as above) in the following pages.

# Signature of Bidder

Name:	
Designation:	

Organization Name: \_\_\_\_\_

Contact No. : \_\_\_\_\_

#### << Organization Letter Head >> DECLARATION SHEET

We, \_\_\_\_\_\_\_ hereby certify that all the information and data furnished by our organization with regard to this tender specification are true and complete to the best of our knowledge. I have gone through the specification, conditions and stipulations in details and agree to comply with the requirements and intent of specification.

This is certified that our organization has been authorized (Copy attached) by the OEM to participate in Tender. We further certified that our organization meets all the conditions of eligibility criteria laid down in this tender document. Moreover, OEM has agreed to support on regular basis with technology / product updates and extend support for the warranty.

The prices quoted in the financial bids are subsidized due to academic discount given to IIT Delhi.

We, further specifically certify that our organization has not been Black Listed/De Listed or put to any Holiday by any Institutional	NAME & ADDRESS OF THE Vendor/ Manufacturer / Agent
Agency/ Govt. Department/ Public Sector Undertaking in the last three years.	
1 Phone	
2 Fax	
3 E-mail	
4 Contact Person Name	
5 Mobile Number	
6 TIN Number	
7 PAN Number	
(In case of on-line payment of Tender Fees)	
8 UTR No. (For Tender Fee)	
(In case of on-line payment of EMD)	
9 UTR No. (For EMD)	
10 Kindly provide bank details of the bidder	
in the following format: a) Name of the Bank	
, 	
b) Account Number	
c) Kindly attach scanned copy of one Cheque	
book page to enable us to return the EMD to unsuccessful bidder	

(Signature of the Tenderer)

Name:

Seal of the Company

List of Government Organizations for whom the Bidder has undertaken such work during last three years (must be supported with work orders)						
Name of the organization	Name of Contact Person	Contact No.				

Name of application specialist / Service Engineer who have the technical competency to handle and support the quoted product during the warranty period.								
Name of the organizationName of Contact PersonContact No.								

Signature of Bidder

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Organization Name: \_\_\_\_\_

Contact No. : \_\_\_\_\_

# **Bid Submission**

# **Online Bid Submission:**

Envelope – 1 (Following documents to be provided as single PDF file)										
Sl. No.	Sl. No. Document Content									
1.	Technical	Compliance Sheet as per Annexure - I	.PDF							
2.	Bid	Organization Declaration Sheet as per Annexure - II	.PDF							
3.		List of organizations/ clients where the same products have been supplied (in last two years) along with their contact number(s). (Annexure-III)	.PDF							
4.		Technical supporting documents in support of all claims made at Annexure-I (Annexure-IV)	.PDF							
		Envelope – 2								
Sl. No.	Document	Content								
1.	Financial Bid	Price bid should be submitted in PDF format.	.PDF							

The Online bids (complete in all respect) must be uploaded online in two Envelops as explained below:-

# Electrical Department Indian Institute of Technology Delhi Hauz Khas, New Delhi-110016

# Date: 28/03/2018

#### Subject: Purchase of three 5 kW<sub>p</sub> Grid Connected Solar PV array (Following format is used for imported items)

S.	Currency	Description and Specification of	Qty. in	Unit	Agency	Discount	Ex-works	Packing +	FOB/FCAA	Insurance	CIF Price
No.		the Item	Units	Price (a)	Commission (If applicable) (b)	(c)	price (d=a+b-c)	Handling + DOC + Inland	irport Price (f=d+e)	+ Freight (g)	(f+g)
								Freight + FCA Charges (e)			
1		<ol> <li>5 kW<sub>p</sub> Solar PV array V<sub>oc</sub> = 400 V with booster and inverter of 5 kVA for single phase grid connected system. (<b>RP03357G</b>)</li> <li>5 kW<sub>p</sub> Solar PV array V<sub>oc</sub> = 400 V with booster and inverter of 5 kVA for single phase grid connected system. (<b>RP03357G</b>)</li> <li>(As per specifications given in</li> </ol>	2								
2		tender document) 1. 5 kW <sub>p</sub> Solar PV array V <sub>oc</sub> = 750	1								
		V without booster and with inverter of 5 kVA for three phase grid connected system.( <b>MI01668N</b> )	1								
		(As per specifications given in tender document)									

\*In each case we need two terminals from the Solar PV array up to the PG Machine Laboratory for experiment purpose (approx. length is 150 m).

Note: At any circumstances, it is the responsibility of the foreign supplier to hand over the material to our forwarder at the origin airport after completing all the inland clearing. No Ex-works consignment will be entertained.

#### For indigenous items please quote as per following format.

S. No.	Description and Specification of the Item	Qty. in Units	Unit Price in Rs.	GST%	Total Price in Rs.
1.	<b>1.</b> 5 kW <sub>p</sub> Solar PV array $V_{oc} = 400$ V with booster	2			
	and inverter of 5 kVA for single phase grid				
	connected system. (RP03357G)				
	<b>2.</b> 5 kW <sub>p</sub> Solar PV array $V_{oc} = 400$ V with booster				
	and inverter of 5 kVA for single phase grid				
	connected system. (RP03357G)				
	(As per specifications given in tender document)				
2	<b>1.</b> $5 \text{ kW}_{\text{p}}$ Solar PV array $V_{\text{oc}} = 750 \text{ V}$ without booster	1			
	and with inverter of 5 kVA for three phase grid				
	connected system.(MI01668N)				
	(As per specifications given in tender document)				

\*In each case we need two terminals from the Solar PV array up to the PG Machine Laboratory for experiment purpose (approx. length is 150 m).

Note: The above financial template should be strictly followed. Any deviation from the above template (in terms of description and specification of the item) may lead to cancellation of the tender.