SOLAR ENERGY CORPORATION OF INDIA LTD. NEW DELHI

SECI/C&P/1000MW/PFR/RfS/-Amendment-01

dated 26-Sep-16

				RfS No. SEC	India /1000 da	ated 19.08.2016	
Sr. No.	Clause No.	Page No.	Existi	ing Clause	.,	<u>, 2000 ac</u>	Amended Clause
1	1	4	The total No. of Buildings under various Ministries, PACKAGES-wise, which are located in India, having capacity of over 1000 MW where site assessment has to be carried out are provided in Annexure-B .			The total No. of Buildings under various Ministries, PACKAGES-wise, which are located in India, having capacity of over 1000 MW where site assessment has to be carried out are provided in Annexure-B. The selected bidder shall be required to visit all the buildings at the sites included in the respective Packages. A "Building" shall mean any structure, having only a SINGLE access to the rooftop, through a staircase/elevators or both.	
2	3	4	menti taxes. will be	num Cost: The maximu ioned below which is Any bid quoting above e rejected. The maximu be as follows: Project Size 1 kWp to 25 kWp 26 kWp to 100 kWp 101 kWp and Above	inclusive of all experent ethis maximum allows	ises and able cost	Maximum Cost: The maximum allowable cost per building to be quoted by the bidder, shall be Rs. 8000/- inclusive of all taxes. The maximum price allowable shall remain the same irrespective of the Package opted by the bidders.

3	4	4	Eligibility of the Bidder: A joint bid/consortium/sub- consultant is not allowed. The bidders are required to meet the following eligibility criteria in order to participate in the bid:	Eligibility of the Bidder: The bidder may be a Company registered under the Companies Act or a Partnership, or a Proprietorship or Society registered in India. A joint bid/consortium/sub-consultant is not allowed. The bidders are required to meet the following eligibility criteria in order to participate in the bid:
4	4.b.	5	Must have an annual turnover of at least INR 10 lakhs in at least two of the last three financial years, i.e. FY 2012-13, 2013-14 and 2014-15.	Must have an annual turnover of at least INR 10 lakhs in at one of the last four financial years, i.e. FY 2012-13, 2013-14 and 2014-15, 2015-16.
5	7.1	7	The Contractor shall, within five (5) working days of the issue of LOA, provide Bank Guarantee(s) for the due Performance of the Contract for an amount of 10% of the Quoted price and validity of Six (6) Months from the date of issue of LOA. The PBGs shall be submitted package-wise, to SECI.	The Contractor shall, within ten (10) working days of the issue of LOA, provide Bank Guarantee(s) for the due Performance of the Contract for an amount of 10% of the Total Quoted price and validity of Six (6) Months from the date of issue of LOA. The PBGs shall be submitted packagewise, to SECI.
6	7.2	7	Encashment of PBG : In case of delay in assessment report submission beyond the scheduled completion time period of 45 days from the issue of LOA, the PBG shall be encashed on pro-rata basis for a further period of 30 days beyond the completion of report submission deadline. In case of delay in submission of the report beyond (45+30) days, i.e. 75 days from the issue of LOA, the entire PBG shall be encashed and the award of work shall stand cancelled. SECI reserves the right to award the same work to any other agency.	Encashment of PBG : In case of delay in assessment report submission beyond the scheduled completion time period of 45 days from the issue of LOA, the PBG shall be encashed on pro-rata basis, corresponding to the number of sites completed, for a further period of 30 days beyond the completion of report submission deadline. The amount of penalty shall be calculated on per day basis and pro-rata on the number of sites completed from the total number of sites in the corresponding Package, beyond the original deadline of report submission. In case of delay in submission of the report beyond (45+30) days, i.e. 75 days from the issue of LOA, the entire PBG shall be encashed by SECI and the award of work shall stand cancelled. SECI reserves the right to award the same work to any other agency.
7	8.1	7	Amended as indicated in the next column	The bidder shall submit Bid Security (Bid bond) for an amount of Rs. 20,000/- (Twenty thousand rupees only) for EACH Package.

				submissio	Months (45	project	cost			submission and	Months (45 Days)	cost shall be paid on	
		-	I	On	Within 1.5	70%	of		Ι	On	Within 1.5	80% of project	
9	12	9	Payme nt	Deliverables	Timeline from the Award of Work Order	Payment the total Wor Order price)			Payme nt	Deliverables	Timeline from the Award of Work Order	Payment (% of the total Work Order price)	
			Payment Schedule:							t Schedule:			
				•	e list of buildings in Annexure-B.	in differe	nt Eigh	t			d city-wise list of b ded in Annexure-B	uildings in different	
8	9	8		• • • •	ACKAGES as ment				of the Fourteen (14) no. of PACKAGES as mentioned in				
			-	•	d a minimum of or		-	-	-	•		ne (01) package out	
			Pid Car	ocitur Diddor a	can apply for a ma	wingung of	turo (02	,				ximum of two (02)	
										IICR Code of Bank: 110026030 ranch IFS Code: UBIN0541214			
									India Limited				
								Beneficiary Account Name: Solar Energy Corporation of					
									Benefici	ary Acc. No.: 4	12101010000709		
											u Place Branch, Ne	ew Delhi-110019	
										me: Union Ba			
										•	Details of SECI are	•	
												idding documents. any interest on the	
											••	lix 8: List of Banks"	
										•	•	yable at New Delhi	
											• •	in favour of "Solar	
									concern	ed Ministry/D	epartment along	with the response	
									have to	furnish the	appropriate cert	fications from the	
									the abov	ve mentioned	bid bond. Howeve	r, such bidders shall	
									the abov	ve mentioned		r, such bidde	

Page **3** of **21**

	approval		on		Feasibility	approval	of
	of		submission		Assessment	assessment	
	Feasibility		and approval		Report for	report for	all
	Assessme		of		all the	the buildings	s of
	nt Report		assessment		buildings	PACKAGE	
	for all the		report for all		for which	awarded	(no
	buildings		the buildings		Work Order	advance sł	hall
	for which		of PACKAGE		is Awarded.	be paid)	
	Work		awarded (no	2	When	20% of proje	ect
	Order is		advance shall		successful	cost shall	be
	Awarded.		be paid)		solar	paid on t	he
2	2 When	Within 15 days	30% of		rooftop	date of t	he
	successful		project cost		developers	release	of
	solar		shall be paid		examine	sanction ord	ler
	rooftop		on the date		the	to t	he
	developers		of the		Assessed	respective	
	examine		release of		buildings	rooftop	
	the		sanction		(whose	developer(s)	l.
	Assessed		order to the		reports	of t	he
	buildings		respective		have been	correspondir	ng
	(whose		rooftop		submitted	buildings or	9
	reports		developer(s)		by the	months fro	m
	have been		of the		selected	the approv	val
	submitted		correspondi		bidder in	of t	he
	by the		ng buildings		respective	assessment	
	selected		or 9 months		PACKAGE)	report by t	he
	bidder in		from the		to	successful	
	respective		approval of		implement	bidders,	
	PACKAGE)		the		the Grid	whichever	is
	to		assessment		connected	 earlier.	

implement	report by	roof top
the Grid	the	projects
connected	successful	and the
roof top	bidders,	identified
projects	whichever is	capacity is
and the	earlier.	found
identified		within the
capacity is		tolerance
found		of +/- 15%
within the		of the
tolerance		capacity
of +/- 15%		originally
of the		proposed
capacity		by the
originally		successful
proposed		bidder of
by the		the
successful		respective
bidder of		PACKAGE.
the		
respective		The 20% amount of total project cost shall be paid after the
PACKAGE.		site inspection by the prospective bidders of upcoming
		1000 MW Grid connected roof top scheme, of Assessed
The 30% amount of total project cost sh	hall be paid after the	building under this RfS.
site inspection by the prospective bi		
1000 MW Grid connected roof top se		
building under this RfS.	·	

10	14	10	Processing fee – Bid processing fee of Rs. 5,000/- inclusive of all applicable taxes per PACKAGE shall be submitted by the bidders. Bid processing fee for each PACKAGE is to be submitted separately. The processing fee shall be submitted in the form of Demand Draft (DD), in favour of "Solar Energy Corporation of India Limited", payable at New Delhi.	Processing fee – Bid processing fee of Rs. 5,750/ - inclusive of all applicable taxes <u>per PACKAGE</u> shall be submitted by the bidders. Bid processing fee for each PACKAGE is to be submitted separately. The processing fee shall be submitted in the form of Demand Draft (DD), in favour of "Solar Energy Corporation of India Limited", payable at New Delhi.
11	19.	10	Procedure for electronic Reverse Auction (e-RA)	deleted
12	20 20	11	Amended as indicated in the next column	 Selection of Successful Bidders a. Selection of bidders shall be done separately for each Package. The price bids of only techno-commercially shortlisted bidders shall be opened for each Package. Opening of price bids shall be done online on the TCIL portal. b. For each package, the price bids shall be arranged in an ascending manner. The bidder quoting the lowest price shall (L1) shall be declared as the successful bidder for the corresponding package. c. In case of single bidding received against any Package, the decision of award of work to the single bidder shall be taken by SECI after due consideration. d. In case of a tie between two bidders for the L1 price, the bidder having the higher annual turnover as per the submitted documents, shall be declared the successful bidder for the selection process, Letters of Award (LOAs)/Notice to Proceed will be issued to the successful bidders in each package. In all cases, SECI's decision regarding selection of bidders for the opening of price bids and final allotment of LOAs shall be final and binding on all bidders.
13	Appendix -7	25	Renamed as "Sample Format for Satisfactory operation (on	Plant Owners/rooftop owners' letter head)"

			Annexure-A is ame	ended as fol	lows:	
					PRICE I	BID FORM
				S No.	Name of the PACKAGES	Unit Cost Per Building (INR) (inclusive of all taxes and expenses)
						{Insert your quote per Building)
				1	{e.g. PACKAGE-A}	
				2	{e.g. PACKAGE-B}	
14	Annexure	30		3	{e.g. PACKAGE-C}	
14	-A	50		Total (in fi	igures, INR)	
				Total (in v	vords)	
			(NOTE: 1. A bidder shall be allowed to participate only in two 2. In case of discrepancy between unit price and total 3. In case of discrepancy between words and figures, t		en unit price and total price	, the unit price shall prevail.
			Date: Place: Designation Address of the Co			uthorized signatory

			Annexure-B is amende		NISE LIST OF BUILDINGS	
			The List of Buildings of follows –	Ministries/Department Allocated to SECI out o	f 21 Ministries/Department Allocated to	ວ SECI are as
				Ministry	Estimated Rooftop Potential (kWp)	
				MHRD	801798	
				Ministry of Agriculture	9098	
				Ministry of Consumer Affairs, Food & Public Distribution	49549	
				Ministry of Culture	101290	
				Ministry of Defence	87997	
15	Annexure -B	31		Ministry of Defence - Department of Ex- Servicemen Welfare	3180	
				Ministry of Housing and Urban Poverty Alleviation	943	
				Ministry of Minority Affairs	41	
				Ministry of Personnel, Public Grievances and Pensions	918	
				Ministry of Shipping	14943	
				MINISTRY OF SOCIAL JUSTICE & EMPOWERMENT	45	
				Ministry of Textiles	30509	
				Total	1100310	

Package-wise list of identified buildings is uploaded with the RfS on TCIL Website. The various States/UTs are arrange in various Packages as follows:
i. Package-A: Andhra Pradesh and Telangana
ii. Package-B: Karnataka and Kerala
iii. Package-C: Tamil Nadu and Andaman & Nicobar Islands
iv. Package-D: Goa and Maharashtra
v. Package-E: Gujarat
vi. Package-F: Rajasthan
vii. Package-G: Bihar, Jharkhand & West Bengal
viii. Package-H: Madhya Pradesh
ix. Package-I: Chhattisgarh and Odisha
x. Package-J: Jammu & Kashmir
xi. Package-K: Delhi/NCR and Harayna
xii. Package-L: Chandigarh, Punjab and Himachal Pradesh
xiii. Package-M: Uttarakhand and Uttar Pradesh
xiv. Package-N: Sikkim, Arunachal Pradesh, Nagaland, Tripura, Manipur, Assam, Meghalaya, Mizoram

Amended Formats in the RfS Document

Appendix-1

Format for bid letter

(On Bidder's Letter Head)

То

Sh. Sanjay Sharma, General Manager (C&P),
Solar Energy Corporation of India limited,
1st floor, Wing A, Religare Building,
D – 3, District Centre, Saket,
New Delhi – 17,

Dear Sir,

We have understood the instructions and the terms and conditions mentioned in the RfS Document (Enter RfS No......) and have thoroughly examined the RFS Document and are fully aware of the scope of work required. We give our unconditional acceptance to the Bid, dated _______ and Bid Documents attached thereto, issued by Solar Energy Corporation of India Ltd. (hereinafter called as "the Employer" or "Employer"), as amended. As a token of our acceptance to the Bid Documents, the same have been digitally signed by us and uploaded along with the response to RfS. We shall ensure that we execute such Bid Documents as per the provisions of the Bid and provisions of such Bid Documents shall be binding on us. We have submitted our Price Bid strictly as per Annexure-A of the RfS, without any deviations, conditions and without mentioning any assumptions or notes for the Price Bid in the said format. We confirm that all the terms and conditions of our Bid are valid for a period of 120 days from the bid submission deadline.

S.NO.	ITEMS	PARTICULARS
1	NAME OF THE COMPANY	
2	NAME OF THE AUTHORISED REPRESENTATIVE OF THE COMPANY	
3	TELEPHONE NUMBER	
4	FAX No.	
5	EMAIL	
6	ADDRES OF THE COMPANY/FIRM	
7	STATUS OF THE FIRM, OWNERSHIP, IF REGISTERED SOCIETY, (Enclose Memorandum And Articles of Association, Along With Certificate of Incorporation)	

We are hereby submitting our "Technical Bid" as per prescribed format:-

8	Details of minimum turn-over of the Organization during any of the last 4 years (enclose the audited financial accounts/ balance Sheets) and	
9	Details of major assignments (Experiences): Experience with solar park and due diligence for solar power project	

We further agree and stipulate as follows:

- 1. Until the final Contract Documents are prepared and executed, the RfS documents, with any modifications, additions, deletions agreed with the Employer and your written acceptance submitted in the form signed and stamped RfS documents along with its amendments (if any) by Authorized signatory of the contractor at the time of bidding, shall constitute a binding Contract between us, upon terms contained in aforesaid documents and the Financial Proposal accompanying the Bid.
- 2. That the Employer will not supply any men, material & logistics. In all respects we shall be fully selfsufficient in the Performance of the work.
- 3. I/ We understand that Employer is not bound to accept the lowest of the Bid you may receive.
- 4. I/ We shall make available to the Employer any additional information it may find necessary or require to supplement or authenticate the qualification statement.
- 5. I/ We acknowledge the right of the Employer to reject our Bid without assigning any reason or otherwise and hereby waive, to the fullest extent permitted by applicable law, our right to challenge the same on any account whatsoever.
- 6. I/ We understand that you may cancel the bidding process at any time and that you are neither bound to accept any Application that you may receive nor to invite the Applicants to Bid for the Project, without incurring any liability to the Applicants.
- 7. I/ We further certify that in regard to matters relating to security and integrity of the country, we or any of our Associates have not been charge-sheeted by any agency of the Government or convicted by a Court of Law.
- 8. I/ We further certify that no investigation by a regulatory authority is pending either against us or against our Associates or against our CEO or any of our directors/ managers/ employees.
- 9. I/ We undertake that in case due to any change in facts or circumstances during the bidding process, we are attracted by the provisions of disqualification in terms of the provisions of this RfS; we shall intimate the Employer of the same immediately.

- 10. I/ We hereby irrevocably waive any right or remedy which we may have at any stage at law or howsoever otherwise arising to challenge or question any decision taken by the Employer in connection with the selection of Applicants, selection of the Bidder, or in connection with the selection/ bidding process itself, in respect of the above mentioned Project and the terms and implementation thereof.
- 11. I/ We agree and undertake to abide by all the terms and conditions of the RfS document.
- 12. We agree to keep the bidding valid for acceptance for a period of 120 days from the date of floating the Bid (hereinafter referred to as validity period) and the Bid shall not be withdrawn on or after the opening of bidding till the expiration of the validity period or any extension thereof.
- 13. We also undertake not to vary/ modify the Bid during the validity period or any extension thereof.
- 14. We further represent that we have familiarized ourselves with all the terms and provisions of the various parts of the bidding documents and that in making our Bid, we do not rely upon any representation made by any agent or employee of yourselves in respect of the terms of the bidding documents or the nature of the Performance of the works.
- 15. We submit this Bid with the full understanding that our Bid fully complies with all the terms and conditions of the RfS documents including Bid evaluation criteria and that no deviation/exception to the RfS documents have been taken by us. We also agree that in case we have taken any exceptions/ deviations to the RfS documents, the Employer will be free to reject our offer on account of such exceptions/deviations.

For and on behalf of: Signature:

(Authorized Signatory) Name of the Person: Designation:

(Note: The above Format supersedes the Format included in the RfS issued on 19.08.2016)

Appendix-9

POWER OF ATTORNEY

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution.)

Power of Attorney to be provided by the Bidding Company in favour of its representative as evidence of authorized signatory's authority.

We hereby agree to ratify all acts, deeds and things done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall be binding on us and shall always be deemed to have been done by us.

All the terms used herein but not defined shall have the meaning ascribed to such terms under the Bid.

Signed by the within named

..... (Insert the name of the executant company) through the hand of Mr. duly authorized by the Board to issue such Power of Attorney

Dated this day of

Accepted

.....

Signature of Attorney (Name, designation and address of the Attorney)

Attested

(Signature of the executant)

(Name, designation and address of the executant)

.....

Signature and stamp of Notary of the place of execution

Common seal of has been affixed in my/our presence pursuant to Board of Director's Resolution dated.....

WITNESS

1.	
(Signatu	ure)
Name	
Designa	ition
2.	
(Signatu	ure)
Name	

Designation

Notes:

- (1) The mode of execution of the power of attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and the same should be under common seal of the executant affixed in accordance with the applicable procedure. Further, the person whose signatures are to be provided on the power of attorney shall be duly authorized by the executant(s) in this regard.
- (2) The person authorized under this Power of Attorney, in the case of the Bidding Company / Lead Member being a public company, or a private company which is a subsidiary of a public company, in terms of the Companies Act, 1956, with a paid up share capital of more than Rupees Five crores, should be the Managing Director / whole time director/manager appointed under section 269 of the Companies Act, 1956. In all other cases the person authorized should be a director duly authorized by a board resolution duly passed by the Company.
- (3) Also, wherever required, the executant(s) should submit for verification the extract of the chartered documents and documents such as a Board resolution / power of attorney, in favour of the person executing this power of attorney for delegation of power hereunder on behalf of the executant(s).

(Note: The above Format supersedes the Format included in the RfS issued on 19.08.2016)

FEASIBILITY ASSESSMENT REPORT FOR GRID CONNECTED ROOFTOP SOLAR PV SYSTEM OF XX kWp CAPACITY

AT

"*********NAME OF THE INSTITUTION***********

"Site Picture"

Submitted to



SOLAR ENERGY CORPORATION OF INDIA LIMITED

(A Government of India Enterprise)

Ist floor, Wing A, Religare Building, D – 3, District Centre, Saket, New Delhi – 17

Tel: 011 – 71989256,

(On letterhead of Office/Institution)

Date:

General Manager (C&P) Solar Energy Corporation of India Limited Ist floor, Wing A, Religare Building, D – 3, District Centre, Saket, New Delhi – 17. Tel: 71989256

Subject: Visit for Rooftop Assessment and Collection of required data

This is to confirm that experts (Mr.& Mr.) from *M/s* *****Name of the Solar Consultant**** visited our office/ institution and conducted rooftop assessment survey of the following buildings:

- 1. Admin Block
- 2. Canteen
- 3. Hostel
- 4. Etc.

To,

We have also shared the following documents with the Solar Consultant in soft/hard copies (e.g. annual electricity bills, annual diesel quantity/ expenses etc.).

(Signature) (Name of authorised Person)

Email: Tel/ Mob No.:

1. BRIEF SUMMARY OF ASSESSMENT

S. No.	Particulars	Descriptions		
1.	Name of the Office/ Institution			
2.	Office/ Institution Address			
3.	Name of the Authorised Officer			
	Designation:			
	Tel No.:			
	Mobile No.:			
	Email:			
4.	Latitude			
5.	Longitude			
6.	Site Accessibility			
	Road			
	Nearest Railway Station			
	Nearest Airport			
	Nearest Town/ City			
7.	Current Contracted Load (kVA or kW)			
8.	Average Yearly Electricity Consumption (kWh)			
9.	Current Average Electricity Rate (INR/ kWh)			
	Is DG utilized for power generation?			
10.	(to be furnished if available)			
10.	If yes, what is yearly average diesel			
4.4	consumption Status of Net Metering Policy in the State			
11.	o			
12.	Prevailing DISCOM rates for power generated			
	from Grid Connected Solar PV system (INR/ kWh) (if any)			
13.	Total Roof Area Available (Sq. m)			
13.	Unshaded Roof Area available for Grid			
	Connected Solar PV System (Sq. m)			
15.	Recommended Solar Rooftop PV Capacity (kWp)			
16.	Estimated Average Electricity Generation (kWh)			

2. INTRODUCTION

- Brief about the Office/ Institution
- Nature of activity carried out at the Office/ Institution

3. CURRENT ELECTRICITY SCENARIO AT THE SITE

a) Grid Power:

Grid Connection Details:	
Name of the DISCOM	

Sanctioned Contract demand (in kVA)	
Voltage	
Frequency	
Average Power Cost (INR/ kWh)	
Monthly power consumption (in kWh) for the past 12 months	

SI. No.	Month	Power Consumption (kWh)	Bill (INR)
1	April 2015		
2	May 2015		
3	June 2015		
4	July 2015		
5	August 2015		
6	September 2015		
7	October 2015		
8	November 2015		
9	December 2015		
10	January 2016		
11	February 2016		
12	March 2016		
	TOTAL		

Approximate percentage of power consumed between 10 AM to 5 PM (Load profile)

Working days per week (include details for all buildings)

Is there any consumption during non-working days? If so, what is the load (kW or kVA, as a proportion of full load) and power consumption (kWh)

b) Power backup (to be furnished if available):

Whether any power backup (for e.g. Diesel Generator Set) is used? If yes,

- i. Source of power generation
- ii. Annual power generation from the source (kWh)
- iii. Annual fuel consumption (kL / ton)
- iv. Annual fuel cost (INR/ year)

4. SITE DESCRIPTION (FOR EACH BUILDING)

Location details

- a. Latitude and longitude (degree)
- b. Elevation of buildings (m)
- c. Photograph from google maps



5. ASSESSMENT OF THE BUILDING

A. Name of the Building : Building-1...2....3

a) Roof Area Assessment (for each building)

- i. Orientation of Building (provide photographs, layout of building/ roof with north direction clearly marked in it).
- ii. Type of roof (RCC with Parapet/ RCC without Parapet/ Tin/ Asbestos/ any other material with penetration allowed/ Mixed Roof etc.)
- iii. Is the roof flat? In case the roof is slant, what is the slope of the roof and which direction is the roof facing (North/South/East/West)?
- iv. Whether the roof will be able to bear the load of the proposed Grid Connected Solar PV System? Yes/ No/ Doubtful (Need reinforcement, old RCC roof). Provide photographs of pillar, beam, cross beam etc.
- v. Are the surroundings very dusty and polluting? Is there any chance for more dust in the modules?
- vi. Photographs of the roof top and the surroundings (All sides)
- vii. The minimum clearance of the structure from the roof level should be 300 mm.





Photograph of the roof top and surroundings

b) Shading Assessment (for each building):

- i. Details of any tall structures within the building (for e.g. water tank, building columns, etc) or in the surroundings (for e.g. tall buildings in the vicinity, trees etc.).
- ii) Is any construction activity going on in the vicinity? Will the upcoming structure further reduce the rooftop area because of shading?

(Please include the photographs)

- iii. Estimate the usable area available based on shading analysis
- iv. Provide roof area drawing (in AutoCAD or any other similar software used for Computer Aided Design of the system) with dimensions (m) and directions. Show the shaded and non-shaded area clearly.
- v. Clearly mention the methodology of shading analysis (whether through Solar Pathfinder/ Google Sketchup or any other 3D modeling tool)

c) Resource Assessment

- i. Solar resource (kWh/m²/year & kWh/m²/day) availability at the site. Mention the source of data.
- ii. Other meteorological parameters: Wind speed, temperature range, no. of rainy days etc.

6. SOLAR ROOFTOP PV SYSTEM

a) Sizing of the Grid Connected Rooftop PV System

- i. Sizing of the Grid Connected Solar PV System (in kWp) based on parameters including rooftop area, shadow analysis, permission/ allocation from DISCOM (as per net metering policy of the State), evacuation arrangements, energy usage etc.
- ii. Show the detailed calculation for the proposed capacity of the plant.

b) Yield Assessment

i. Estimated Energy Yield from the Plant (kWh/ year). Clearly mention the assumptions made for estimating the yield.

c) Power evacuation:

i. Infrastructure available at sites (HT/LT connection/ arrangement with DISCOM/Grid, HT/LT Transformer capacity, Metering arrangement, disconnection

devices etc.)

 Distance (in m) between the roof and the main switchboard/incomer and as well as the location of the DISCOM meter.
 Please include the photographs

7. APPROVALS

i. List of approvals/ clearances/ certificates required for construction, installation and commissioning of the plant.

8. ANNEXURE

- i. Monthly Electricity, diesel or any other Bills (to be furnished if available)
- ii. Single Line Diagram of the proposed solar PV system.
- iii. Cable Distribution Diagram of the proposed solar PV system.
- iv. Drawings for existing arrangements for Earthing and Lightning Protection (to be furnished if available).

(Note: The above Format supersedes the Format included in the RfS issued on 19.08.2016)