SOLAR ENERGY CORPORATION OF INDIA LTD
New Delhi-17

SECIL/IT/SW/PTS/2016   Date: 16-03-2016

Subject: Amendments No – 1 & Clarifications No – 1 to Tender No. SECIL/IT/SW/PTS/2016 dated 03-03-2016 for Development & Implementation of Power Trading Software.

Dear Sir/Madam,

Further to our Tender No. SECIL/IT/SW/PTS/2016 dated 03-03-2016, please find attached an Amendment No-1 to our above mentioned Tender as **Table-A**. This amendment shall form an integral part of the Tender dated 03-03-2016 and shall constitute a part of the Tender document.

Also please find enclosed the Clarification No-1 as Table-B on some of the provisions in our Tender dated 03-03-2016 taken up by various shortlisted bidders during the Pre Bid Conference held at SECI office on 08-03-2016 at 3 p.m. Last date for submission of bid has been extended up to **31st March, 2016 at 2:00 PM**. Date of opening of Commercial & Price Bid is **31st March 2016 at 3:00 PM**. All other terms and conditions of Tender document shall remain same.

Thanking you,

Yours faithfully,

Sd/-
(Deepak Mittal)
Dy. Manager (IT)

Sr. No.	Reference to the Clause, Page No. and Section of the Tender No. SECI/IT/SW/PTS/2016 dated 03-03-2016	Old Clause	Amended Clause/Amendment of any term as referred in the reference Clauses of Tender
1.	Clause 5.3, page no 26,"Project Duration"	Total duration of the project is fourteen weeks and five years technical maintenance and up gradation support post Go-Live. Project milestones are as under. 1. Milestone 1 – SRS and prototype demonstration – 3 weeks. 2. Milestone 2 – Software development – 6 weeks. 3. Milestone 3 – Hosting, Testing and Security auditing – 3 weeks. 4. Milestone 4 -- Training, Acceptance and Go-live – 2 weeks.	Total duration of the project is twenty weeks and five years technical maintenance and up gradation support post Go-Live. Project milestones are as under. 1. Milestone 1 – SRS and prototype demonstration – 5 weeks after LoA. 2. Milestone 2 – Software development – 8 weeks after Milestone – 1. 3. Milestone 3 – Hosting, Testing and Security auditing – 4 weeks after Milestone – 2. 4. Milestone 4 -- Training, Acceptance and Go-live – 3 weeks after Milestone – 3.
2.	Clause 6.7,page no 30, "Prices"	Price mentioned in the Letter of Award shall be firm and not subject to escalations till the execution of the complete order and its subsequent amendments accepted by the Successful Bidder.	Price mentioned in the Letter of Award shall be firm and not subject to escalations till the execution of the complete order and during the tenure of the contract.
3.	Bid Information Sheet	Last date & Time of Submission of Response to Tender Document : 17-03-2016 (14:00 Hrs) Bid Opening (Commercial & Price Bid) : 17-03-2016 (15:00 Hrs)	Last date & Time of Submission of Response to Tender Document : 31-03-2016 (14:00 Hrs) Bid Opening (Commercial & Price Bid) : 31-03-2016 (15:00 Hrs)

Sr. No.	Queries raised/Suggestion provided by the Prospective Bidder	Clarification provided by SECI
	Clarifications dated 11-03-2016 to Tender No. SECI/IT/SW/PTS/2016 dated 03-03-2016	
1.	Ref. Page 13, Clause no. 3.11 - "The vendor shall not subcontract. Please clarify if teaming partnership allowed?"	Selected bidder is responsible and required to fulfil all obligations under this tender. Selected bidder will be the single point of contact for SECI.
2.	Ref: Clause no. 5.1 on page no. 25, "It should be capable of parallel operation over multiple systems simultaneously? Which systems are being referred to?"	All devices of stakeholders which access the power trading software such as computer, mobile and laptop etc. with different Operating System
3.	Clause no 5.1 on page no. 21 - Pls share details of current infrastructure & licenses	Already detailed in Clause 5.1 of para 2 in tender document
4.	Clause no 5.1 on page no 25, point no 3 - Data entry will be in English & data will be maintained in database in English only though the website shall display data in English & Hindi. Pls confirm.	Confirmed
5.	Clause no 5.1 on page no 25, point no 10 - Is Open Source RDBMS & Front end allowed for development?	As long as performance and security of the application is ensured.
6.	Clause no 5.1 on page no 25, point no 10 - Are the current set of servers expected to be utilized for	No, software along with database is hosted at cloud only.

	hosting as per Sec 5.1 para 2 pg 21. Then this point is in conflict with point captured in sec 5.1	
7.	Clause no 5.1 on page no 25, point no 14 - Private OR Public cloud? Any preference on location of datacentre? How much data is to be migrated & currently data is in which format?	Data security is of paramount importance. Location of data centre should be in India. Almost 1 year power trading data
8.	Clause no 5.1 on page no 25, point no 13 - Is resident engineer mandatory? Can the monitoring & support be done from offsite office/remote location? Who shall bear the cost of s/w licenses for onsite development?	Yes No Selected Bidder
9.	Is there any requirement of DR site? No details captured in the RFP. Our understanding is that as long as we are able to provide tier-3 cloud data centre in India with 99.9% uptime and scalable storage along with minimum 1 Mbps dedicated bandwidth, we do not need to provide DR. Please confirm	Vendor to ensure availability as per defined uptime
10.	Clause no 5.1 on page no 25, point no 13 - Is Mobile app mandatory for go live?	Yes
11.	In Financial Bid format the section for capturing blended charges for Changes/Additional tasks is not provided. Where to share the applicable charges for any extra work? (Ref Point no 3 & 4 Pg 21)	Quote to be all inclusive
12.	Clause 5.1, Page 25, General Conditions Point 10 - All access to the Hosting infrastructure is through the 1 Mbps internet cloud and at no point does SECIL envisage bandwidth requirement to go beyond 1 Mbps. Please confirm	Vendor should ensure the defined uptime along with responsiveness of application at any given point of time during the tenure of the contract. However at no point of time should the dedicated bandwidth be less than 1 mbps.
13.	While we can create a scalable infrastructure "It should be scale-able and secure application running on top of adequately sized IT infrastructure", how to in built the same into commercials. Do we establish a	Presently Power Trading Software will be developed to accommodate 43 projects/SPDs located in different parts of country for the aggregate capacity of 750 MW (approx.).

	base Bill of quantity (BOQ), and then a variable expansion cost for eg: vCPU vRAM vHDD Bandwidth in Multiples of say 1 Mbps Base Storage and separate per GB variable storage cost Base Backup and separate per GB variable Backup cost Please confirm where do we add the scalable variable costs in the cost sheet?	However, power trading software, to be developed by the Successful Bidder, should be customized to accommodate the increase in the no of bidders and their associated projects in different parts of country for the estimated aggregated capacity of 10,000 MW in span of 5 years or less. Vendor should ensure the defined uptime along with responsiveness of application at any given point of time during the tenure of the contract.
14.	Clause 5.1, Page 27 point – 2 - For 99.5 % SLA, will it be calculated on Monthly or Quarterly or Yearly basis. Please clarify	Quarterly
15.	Please confirm the time allowed to scale infrastructure after design requirement or reaching of thresholds. Please clarify who will take a call as there will be commercial implications.	Vendor should ensure the defined uptime along with responsiveness of application at any given point of time during the tenure of the contract and the infrastructure to be dynamically scalable to address any growing needs of the application with time.
16.	The given timelines are too tight for delivery of the scope. We propose following timelines: Milestone 1 - Maximum of 8 weeks from contract sign off Milestone 2 - Maximum of 12 weeks from contract sign off Milestone 3 - Maximum of 16 weeks from contract sign off	See Sr. no. – 1 of amendment dated 16-03-2016

	Milestone 4 - Maximum of 20 weeks from contract sign off	
17.	Page 16, Point 3.25 - SECIL should serve at least 30 days prior written notice with reasons and details for cancellation of the contract.	Notice/written intimation shall be served for cancelation of contract
18.	Page 16-17, Point 3.26 - SECIL should serve atleast 15 days prior written notice with reasons and details before invoking or recoving any EMD / PBG / LD from Vendor	Notice/written intimation shall be served for invoking EMD/PBG however for levying LD, Bid conditions shall prevail.
19.	Page 26, Point 5.5 - LD can be applied provided SECIL serves atleast 15 to 30 days prior written notice in each case with details of failure / default before invoking or recoving any LD / Penalty from Vendor	For levying LD, Bid conditions shall prevail.
20.	Page 31, Point 6.10 - SECIL should serve at least 60 days prior written notice for termination by convenience.	Notice/written intimation shall be served for termination of contract
21.	Page 32 Point 6.12 - Provided negligence, failure on obligations, etc. is solely attributable to Vendor. Further, SECIL shall serve at least 30 days prior written notice for invoking this clause.	Notice/written intimation shall be served.
22.	Page 32 Point 6.13 - Provided infringement is solely attributable to Vendor. Further, SECIL shall serve at least 30 days prior written notice for invoking this clause.	Notice/written intimation shall be served.
23.	Page 32 Point 6.14 - Provided Arbitrator is appointed mutually by parties.	Tender terms & conditions shall prevail.

24.	Page 34 Point 6.24 (Successful Bidder Liability) - Provided the claims arise due to reasons solely attributable to Vendor. Further, SECIL shall serve at least 30 days prior written notice with details before invoking this clause.	Notice/written intimation shall be served.
25.	Page 34 Point 6.24 (Indemnity Damages and Insurance) - Provided the claims arise due to reasons solely attributable to Vendor. Further, SECIL shall serve at least 30 days prior written notice with details before invoking this clause.	Notice/written intimation shall be served.

Please find the clarification from SECIL in red

The below mentioned points have been highlighted to have clarity from SECIL for Tender for Development and Implementation of Power Trading Software Tender No. SECIL/IT/SW/PTS/2016

1. Ref. to point 25 (GR, Page 24): Mobile App

a. Calculation of Cost of Development and Maintenance of Mobile App:

Clarity is needed in subject to scope of work in relation to development of Mobile App and number of users and respective roles & accessibility.
i. Example: Registration Fee is required for deployment of Android and IOS application. Cost is different for both Android & IOS. License is required for hosting the app, which cannot be determined for 5 years at the given point of time.
ii. What could be the changes required in App from time on as it would involve a dedicated staff for the same, as per the clauses of the Tender document and also as discussed in the Pre-Bid Meeting the work cannot be sub-let.

Cost for Development, Implementation, Hosting and solution maintenance are to be borne by the selected bidder.
Work defined in scope of work of the tender document with the 5 years support for operation and maintenance.

2. Ref. to point 2 (GR, Page 25):

a. Capacity planning of server hardware:
i. We need information in respect to average consumption of resources or simultaneous user hits within next 5 years' time period.

3. Ref. to point 4 (GR, Page 25):

a. Security of website: There can be two possibilities. Hence it requested to SECIL to give more clarification and define the requirement, basis which the cost can be calculated for the work to be done.

i. Normal SSL certificate for security of website.

ii. SSL Certificate with Extended Validation. (Comes with Green address bar) costlier than normal SSL certificate.

Data security is of paramount importance and Work should be done based on cyber security guidelines of Government of India with Security Audit from cert-in empanelled vendor.

4. Ref. to point 10 (GR, Page 25) Server Specification:

a. It is requested to SECIL to define the server type/configuration as it has an impact on quality of the work to be performed as mentioned under scope of work described in the Tender No. SECIL/IT/SW/PTS/2016 for Development and Implementation of Power Trading Software.

b. It is requested to SECIL to define which server should be used for hosting Virtual or Dedicated (HDD/SSD), same has been defined below for your reference. The cost of each type varies drastically and can lead up-to 50% difference in the cost of procuring the same.

Server Type	Specification	Cost
Virtual Server	a. Easy to configure and maintain. b. The only demerit is that the resources available with this is shared resources, and can impact the performance of the server. **This kind of server is recommended for application where less computing is required.**	Virtual server on cloud is the cheaper option for hosting applications.
Dedicated server (HDD)	a. The feature that makes difference with the virtual server is that the resources available with this are dedicated resource, which cannot be shared with any virtual server. **This server can be recommended for hosting application with high number of computing.**	Dedicated server on cloud is a bit costlier than the virtual servers.

Dedicated server (SSD)	**a.** The features of SSD that makes difference with conventional HDD are. **b. Speed -** HDD disks use spinning platters of magnetic drives and read/write heads for operation. So start-up speed is slower for HDDs than SSDs because a spin-up for the disk is needed. SSD is 8 times faster than an HDD. **c. Data Transfer -** In an SSD, data transfer is not sequential; it is random access so it is faster. SSDs have no read/write heads and thus no delays due to head motion (seeking). **d. Reliability -** Unlike HDD drives, SSD disks do not have moving parts. So SSD reliability is higher. Moving parts in an HDD increase the risk of mechanical failure. HDDs use magnetic storage so are susceptible to damage or data corruption when in close proximity with powerful magnets. SSDs are not at risk for such magnetic distortion. **This kind of server is recommended for hosting application with high volume of computing as well as high volume of data transfer (DISK Read Write).**	Dedicated server with SSD on cloud is costlier than the HDD server.
Note: Dedicated bandwidth can only be possible with Dedicated server. Also Cost for the Services would differ and Quotation for Tender can vary up-to 50% based on choice of Server. Hence clarification is requested from SECIL to define the type of server to be used for fair chance for all the bidders based on quality of technical resources used for computation of the final bid price.		

Vendor should ensure the defined uptime along with responsiveness of application at any given point of time during the tenure of the contract and the infrastructure to be dynamically scalable to address any growing needs of the application with time.

5. Ref. to point 17 (GR, Page 25):

a. Scope of staging server should be defined.
i. It has not been defined that if a separate server needs to be in place for testing, security auditing and training or the developer can choose to test on his own server. As if it is placed on the developer's server, who would be accountable for data security.
ii. As for each server there is additional cost.

As per the point no 17 of General Requirement of Clause 5.1., Staging Server and production server are to be hosted in line with point no 10 of General Requirement of Clause 5.1. Cost to be borne by the selected bidder.

6. Ref. to point no. 6.7 (Page 30) Prices:

a. Price mentioned in the Letter of Award shall be firm and not subject to escalations till the execution of the complete order and its **subsequent amendments** accepted by the Successful Bidder.

b. But as mentioned in the points stated above there are a lot of areas where clarity is needed in subject to Scope of Work, which has a cost implication attached to it.

Please refer the amendment point no 2 mentioned above in Table – A