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| I Amendment / Corrigendum to TENDER   |
| Sub: TENDER FOR ADVANCED ENERGY MONITORING SYSTEM  using Supervisory Control & Data acquisition (SCADA) based system  at Akkulam Factory of HLL Lifecare Limited, ThiruvananthapuramRef: IFB NO: HLL/AFT/PUR/Engg/SCADA/2022-23 Dated.26.03.2022

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| **Sl** **No** | **Original Tender Details** | **Amended Tender Details** |
| 1. | **Bid Submission Closing Date**12/04/2022 at 14.00 Hrs | **Bid Submission Closing Date**26/04/2022 at 14.00 Hrs |
| 2. | **Bid Opening Date**12/04/2022 at 15.30 Hrs | **Bid Opening Date**26/04/2022 at 15.30 Hrs |

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| **Sl.No** | **Vendor** | **Query** | **HLL Reply** | **Remarks** |
| 1 | RBH Solutions | Complete tender document not able to get | It is available in HLL website [www.lifecarehll.com](http://www.lifecarehll.com). Please down load it. |  |
|  |  | Request for extension of tender submission date by 10- 15 days | The corrigendum will be published in HLL website [www.lifecarehll.com](http://www.lifecarehll.com). |  |
| 2 | Cadillac Automation | Can we add Schneider make CITEC SCADA in the list? | Yes, As we are familiar with this make at AFT. This make will be included in preferred list.  |  |
|  |  | Please inform about the UPS back up supply for computer whether you will provide or not | UPS supply for Server computer will be provided by HLL. |  |
|  |  | Please give the confirmation about EMD exemption for the attached certificate or else we need to pay the EMD Amount |  |  |
| 3 | Consyst | Warranty periodThe support should essentially mean rectification of errors and correction or addition of reports etc without any additional charge to HLL.As HLL is looking for an advanced EMS system, please confirm that no other reports apart from section "h) Reports" will be asked to develop during the execution stage.  | The reports list in tender is an indicative one. There will be minimum 50 customized reports. The templates will be shared to the successful bidder. |  |
|  |  | SECTION III Eligibility Criteria5) The bidder shall complete minimum 1 similar work with SCADA application of 1000 tags or above in last 3 years.Please confirm if "similar work" means Energy Management System or is it any SCADA based projects.Generally Industrial projects execution timeline can vary from 4 months to 1 year based on the complexity and size of the project and Govt Institutions commonly consider projects that are executed in min last 5 years for eligibility & pre-qualification check. Considering this we request HLL to change previous project timeline from min 3 years to min 5 years.  | Similar work means process parameters monitoring SCADA based system. Not need to be Energy Management System. |  |
|  |  | Technical SpecificationThe implementation shall include configuration of licensed SCADA software application (Minimum 1000 Tags) to capture electrical parameters from Multifunction Meters installed at electrical panels. The SCADA system implemented shall be of reputed make (make Allen Bradley/Siemens/Fuji/Mitsubishi).As HLL is looking for SCADA based EMS system from reputed manufactures, we would like to seek if SCADA from AVEVA (Schneider Electric) can be proposed as its not mentioned in the approved list.  | Yes, As we are familiar with this make at AFT. This make will be included in preferred list.  |  |
|  |  | The SCADA system shall have a customized dashboard with different diagrams and area/product wise energy consumption details. The SCADA system shall be accessible over LAN network of HLL. 5 remote user access need to be provided. The SCADA system shall be accessible through internet using configured desktop/laptops5 remote users mean, 5 web clients that can accessed from any PC connected to same LAN? or whether HLL is looking to remotely monitor the EMS screen outside HLL premised through Internet | The SCADA system need to be accessible over LAN and through internet. Minimum 5 remote users access required. |  |
|  |  | COMMENCEMENT & COMPLETION TIMEDate of commencement of work should be reckoned from the date of issuance of work order. The whole work must be completed within 45 (Forty five) days from the date of commencement. A detailed time schedule for the work has to be prepared and submitted by the successful bidder with the Detailed Design Report.Completion time of 45 day is too short considering the jobs like field cabling, SCADA development. Can we get the completion time revised to min 2 months time from the date of design approval? | Completion period has been amended as 60 days from the date Purchase Order |  |
|  | Fox solutions | The implementation shall includeconfiguration of licensed SCADA software application (Minimum 1000 Tags) to capture electrical parameters from Multifunction Meters installed at electrical panels. The SCADA system implemented shall be of reputed make (make AllenBradley/ Siemens/ Fuji/ Mitsubishi).FOX is the OEM of EMS Software and Serial to Ethernet converter (Gateway/RTU) which will fulfill all the site requirements and perform satisfactorily with all professional expertise.Kindly allow FOX make of EMS- SCADA Software and Serial to Ethernet converter(Gateway/RTU) to bid for this project | The bidder has to study the site and quote. As EMS Software is not familiar with us. This make can’t be included in the preferred list.  |  |
|  |  | Tender BudgetPlease share the project estimated value/budget with and without AMC. It is important to know for getting clarity about the scope ofwork for this project. |  |  |
|  |  | Bid Security : Rs.10,000/-Please share the project estimated value/budget with and without AMC. It is important to know for getting clarity about the scope ofwork for this project | As per our tendering practice, Estimated cost would not be mentioned in the tender. |  |
|  |  | Bidder shall prepare and submit the detailed design report to HLL Lifecare Limited which must contain schedule of work, detailed specifications of each equipments all necessary drawings and associated calculations for selection of different equipments for the SCADA system. Based on the study the tenderer shall decide the number of multifunction meters need to be installed in each electrical panel.Please share the detail finalized BOQ and the probable energy meters to be installed in eacharea (out of 16 as per tender document).It will make clarity for all bidders and bring them up on same platform to competitive bidding .Else price comparison will not be apple to apple. | Bidder need to study the site and decide the number of meters required and prepare technical proposal along with BOQ as per their design. |  |
|  |  | Bidder shall at his own cost carry out detailed study of existing electrical power distribution system and other relevantparameters required for design of the SCADA system. Bidder shall prepare and submit the detailed design report to HLL Lifecare Limited which must containschedule of work, detailed specificationsof each equipments all necessary drawings and associated calculations for selection of different equipments forthe SCADA system. Based on the study the tenderer shall decide the number of multifunction meters need to be installed in each electrical panel.Please share the detail finalized BOQ and the probable energy meters to be installed in eacharea (out of 16 as per tender document).It will make clarity for all bidders and bring them up on same platform to competitivebidding .Else price comparison will not be apple to apple. | Bidder need to study the site and decide the number of meters required and prepare technical proposal along with BOQ as per their design. |  |
|  |  | 7) Bidder shall at his own cost carry out detailed study of existing electrical powerdistribution system and other relevant parameters required for design the SCADA system after taking prior permission from Controlling Officer ((Engineering). Bidder shall prepare and submit the detaileddesign report to HLL Lifecare Limited which must contain schedule of work, detailedspecifications of each equipments all necessary drawings and associated calculations for selection of different equipmentsfor the SCADA system. This detailed study report shall be submitted in the technical bidIf we get the finalized BOQ with No. of energy meters in each area along with rough layout ofthe plant. We could submit the required design/ architecture along with schedule and other necessary information.For the Competitive bidding, the finalizedinformation is should be share by HLL officials to bring all bidders on same page for avoidingconfusion and efficient costingRequest to share BOQ and No. of energy meters to be installed in each area along with plant layout.. | Bidder need to study the site and decide the number of meters required and prepare technical proposal along with BOQ as per their design. |  |
|  |  | Supply, installation, commissioning and testing of all materials, hardware and software required for the SCADA system shall be under scope of successful bidder.Allmaterilas include but not limited to thefollowing:i. Licensed SCADA application of reputedmake (Allen Bradley, Siemens, Fuji, andMitsubishi) of minimum 1000 tags with 5remote users.ii. IT hardware and networking items.iii Consumables (Power cables, Signalcables, Network cable, all dressingaccessories, conduits, etc).iv Current transformerv.Serial to Ethernet convertervi.MCBvii.Ethernet Switchviii.Power supplyix. Enclosurex. Any other items requiredThe tender points are open ended. As the BOQis not fixed, it is difficult to come up withspecific cost.Please share the detail finalized BOQ and theprobable energy meters to be installed in eacharea (out of 16 as per tender document).It will make clarity for all bidders and bringthem up on same platform to competitivebidding.Else price comparison will not be apple toapple.. | Bidder need to study the site and decide the number of meters required and prepare technical proposal along with BOQ as per their design. |  |
|  |  | i. Licensed SCADA application of reputedmake (Allen Bradley, Siemens, Fuji, andMitsubishi) of minimum 1000 tags with 5remote users.FOX is the OEM of EMS Software and Serial toEthernet converter (Gateway/RTU) which willfulfill all the site requirements and performsatisfactorily with all professional expertise.Kindly allow FOX make of EMS- SCADASoftware and Serial to Ethernet converter(Gateway/RTU) to bid for this project | The bidder has to study the site and quote. As EMS Software is not familiar with us. This make can’t be included in the preferred list.  |  |
|  |  | ii. IT hardware and networking items.Please confirm if LAN network is already thereand we shall connect the Gateways to it. If notplease share the layout for network design estimation. | Bidder need to study the site and decide the number of meters required and prepare technical proposal along with BOQ as per their design. |  |
|  |  | CURRENT TRANSFORMERAs the meter quantity is not known, the no. of CTs to be considered while costing is not fixed. Please share the meter quantity for estimatingthe CT Qty | The bidder has to study the site and quote. Based on study the details can be arrived by bidder. |  |
|  |  | Please share below CT specifications required for CT Selection:A. Primary to secondary ratio:B. VA Burden:C. Accuracy class:D. ID required:E. Primary conductor type (cable or busbar) with dimensions:F. Type of CT (Tape wound or Resin cast):G. Quantity: |  |  |
|  |  | MCBPlease share1. quantity.2. 2 core or 4 core3. Rating of MCB | The bidder has to study the site and quote. Based on study the details can be arrived by bidder. |  |
|  |  | Serial to Ethernet converterPlease share quantity | The bidder has to study the site and quote. Based on study the details can be arrived by bidder. |  |
|  |  | Ethernet SwitchPlease share the layout of plant with meterquantity and available LAN network. It willhelp to decide the Switch with specific ports. | The bidder has to study the site and quote. Based on study the details can be arrived by bidder. |  |
|  |  | EnclosurePlease confirm the use case of Enclosure. Forwhich equipment it should be considered | Enclosure for mounting the multifunction meter need to be arranged by bidder if existing electrical panel does not have provision. |  |
|  |  | OPERATION AND MAINTENANCEThe successful bidder shall maintain andsupport the developed SCADA System fora period of 6 years i.e. six years after Go-LIVE. The first year will be the warrantyperiod and thenext 5 (five) years will be paidmaintenance.Please confirm if the purchase order will begiven for complete 6 years (i.e. 1 year + 5years of AMC) Or else it will be given in 2 partsi.e. for first year and remaining 5 years ofAMC. | Work order will clearly mention project completion and AMC period. |  |
|  |  | d. Last date and time for receipt of bids: 12/04/2022 at 14.00 HrsPlease note that after any corrigendum orPrebid query reply we need at least 10 -12days for working on bid and hardcopysubmission.Hence please consider our request to extendthis tender at least by 22nd April 2022. | If any change will be updated in corrigendum.Last date of submission of Tender is extended to 26/04/2022 |  |
|  |  | 13) The successful bidder/tenderer has toshare the source code/program of SCADA application with HLL from time to time.All material/ product and related codeswould be property of HLL and thesuccessful bidder should have no claimover the same in future. All content shouldbe stored and kept confidential and thesuccessful bidder should not reuse/replicate/ transfer the same to anyoneelse. The vendor should provide alladmin/ user manuals. The vendorshould also provide support for allfuture upgrades/initiatives of HLL relatedto the SCADA ApplicationSource code/ program of SCADA is theintellectual property of the company and that cannot be sharePlease remove this point from the Tender. | No Change is made on this point |  |

All other terms and conditions in the original tender remain unchanged.

**08-04.2022                                                             Joint General Manager (Materials)**