



RAJASTHAN STATE MINES & MINERALS LIMITED

(A Govt. of Rajasthan Enterprise)

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Sub: NIT NO.RSMM/CO/MM/NIT-14/2015-16 Dated : 28.08.2015 for Supply, Installation & Commissioning of latest technology Allen Bradley/ Siemens/ L&T/ Schneider Electric/ ABB/ GE-Fanuc/Omron/ Mitsubishi/ Modicon/ Phoenix/Honeywell make PLC on turn key basis in place of existing M/s. Allen Bradley make (SLC 5/05 Processor+ AB 3/10 IOs) PLC at our LGO Crushing Plant, Jhamarkotra mines, Udaipur (Raj.)

On the subject to above, the Pre-bid meeting was held on 17.09.2015 at Conference Hall, Corporate Office, Udaipur wherein representatives of M/s. Applitech Infotech Pvt.Ltd and M/s. Engineers & Engineers (Electricals) Pvt. Ltd. were present. Also we had received an email from M/s. Creative Robotics Pvt. Ltd. for certain clarification, however, they have not attended the pre-bid meeting.

On behalf of RSMML, GM(MM), SM (F&A-MM), SM(MM), DM(MM)- CO and DM (Inst.)- SBU&PC(RP) were present.

Following clarifications/information were given during the meeting. Details of same are narrated as under:

S.N.	Query/Observation of Parties	Explanation/clarification given by RSMML
M/s. Applitech Infotech Pvt.Ltd		
1.	Total No. of SCADA Computers to be provided by us for operator & Engineering stations.	It was clarified that tenderers have to provide 2 nos. PCs to be installed at LGO control room at operator's station. These computers shall be loaded with offered 2 nos. Run Time SCADA software. Further, additional 1 no. SCADA works edition (software) to be supplied & installed additionally on the PC provided by RSMML at Engineering Station. Details of same are as per clause no. Annex-IV of tender, point no.1(f).
2.	Any up to date backups of PLC Program & SCADA with all descriptions are available or not.	It was clarified that existing PLC programme with all details will be provided in xps/pdf format. Further for SCADA animations, screen shots in jpg format and tag details will be provided in xls format.

3.	Can we add any I/O Modules in the existing panels or we can use it only for junction boxes.	It was clarified that as has already been mentioned in our tender that existing panels shall be used only as a junction boxes and no Input/Output modules is to be added in the existing panels. All Input/Output modules shall be installed in new panel as per requirement of tender. Details of Input/Output modules are as per annexure-IV(a) of tender.
4.	Distance between main CPU panel & Remote I/Os panels.	It was clarified that distance between main CPU panel & Remote Input/Output modules panels is approx. 100 mts through route distance, however, parties were advised to visit site for actual distance.
5.	Make of existing SCADA software.	The SCADA software is being used as installed while commissioning of PLC system. Details of same can be seen at site.
6.	Can we get details of Annexure – IV(b).	All details are attached with tender as per Annexure – IV(b) of tender. Same has to be downloaded from website separately.

M/s. Engineers & Engineers (Electricals) Pvt. Ltd

7	What will be the distance between Existing panel and New Panel? Will the cabling of control cable between both the panels be in vendor's scope?	It was clarified that approx. distance through cable route between existing & new Input/Output modules panels will be approx. 15-20 mtrs. Further, both new Input/Output modules panels will be installed adjoining. It was also clarified that distance between main CPU panel & Remote Input/Output modules panels is approx. 100 mts through cable route distance, however, parties were advised to visit site for actual distances. It was informed that extra cable, if required, shall be supplied for completing the PLC replacement work by the tenderer. All the cabling work along with supply of cable will be in tenderer's scope.
8	What is RSMM's SCADA requirement (Runtime and Development) ? Will supply of PC for the same is in vendor's scope? If yes, what is the minimum PC configuration (Processor make, Technology, RAM, Monitor size etc.) as per RSMM standards?	SCADA shall be developed as per existing system & requirement of tender. All details of SCADA are mentioned in annexure- IV,d. and details of PC are mentioned at annexure-IV of tender, (point no. 1,f). Regarding PCs, clarification provided at point no. 1 may be referred.
9	Will Existing running PLC Program and SCADA be provided by RSMM?	Clarification is same as provided at point no. 2.
10	Will existing System Drawing/Schematics be provided by RSMM?	It was clarified that all existing data related to PLC are available and will be provided.
11	What will be the distance between all 3 new panels	Regarding distances, clarification provided at point no. 7 may be referred.

12	What is the Wireless network topology/scheme required by RSMM? Will the setup be in vendor's scope?	<p>Details of wired/wireless data communication is mentioned at annexure-IV of tender (point no. 1,g) Wireless ethernet network in License free frequency band shall be provided by the tenderer. Further, it was clarified that the line of sight distance of wireless network is about 1000 mtrs.</p> <p>All required hardware/software alongwith installation & commissioning will be in tenderer's scope.</p>
13	Please elaborate the requirement of Redundant Power Supply.	<p>As mentioned in tender document, tenderer is required to provide external Redundant Power Supply of 24 Volt, D.C. in each Input/Output panel.</p> <p>Further, only power supply point will be provided by RSMML. All power cables will be in the scope of tenderer.</p>
14	PLC required by RSMM: Modular type or Chassis type?	<p>It was clarified that most of the PLCs being supplied are of Rack type, therefore, RSMML's requirement is also of Rack type.</p>
15	Is it mandatory to design configuration of number of I/O Racks for each panel as mentioned in Tender? What if the system offered by vendor, needs to add/subtract racks for given number of Digital I/Os and Analog I/Os?	<p>It was clarified that no. of panels i.e. total 3 nos. (1 no. for CPU panel and 2 nos. for Input/Output modules panels) will be as per tender, however, tenderer may arrange number of racks in each panel as per their design. However, nos. of Input/Output modules & size of panels shall be as per annexure- IV(a) & IV(e) of tender.</p> <p>Further, it was clarified that one CPU panel is lying unused near the existing CPU panel. Tenderers can use the unused CPU panel for installation of CPU, power supply, communication modules and existing CPU panel will be used as junction box. Incase of any MCB is required in existing old panels (to be used as Junction Boxes) for execution of work, it will be in the scope of tenderer.</p> <p>Further, PLC remote input / output Panels i.e. Panel - 2 & Panel - 3 should have extra empty slots to accommodate at least 4 extra modules in each panel for future expansion. These empty slots are to be covered with dummy modules. Details are as per annexure-IV(b) of tender.</p>
16	Can we use 24VDC digital input and output modules with interposing relays? If yes, will isolated modules still be required by RSMM?	<p>It was clarified that tenderer can use 24 Volt, D.C digital input and output modules with interposing relays, however, field supply should be 220 VAC only.</p> <p>Further, all Input/Output modules should be provided with internal isolation. Incase, internal isolation is not available, then, tender will have to provided modules with external isolators.</p>

CREATIVE ROBOTICS PVT LTD		
17	As per Annexure (IV) a, Racks has been defined, which may be changed as per No of Channels per Module, Also, we would like to request you to accept 24 VDC Digital Inputs and Outputs along with Interposing Relays for Digital Inputs & Outputs.	Clarification is same as provided at point no. 15 & 16.
18	As per Annexure (IV) e, Point No 2, Size of Panel is given, Is this size applicable and fix for all panels, or could be changed as per detail Engineering and RSMML Approval. As per our understanding 03 Nos panels are required – CPU Panel -1 No, I/O Rack Panel – 02 Nos, CPU Panel and I/O Rack Panel Sizes will have different sizes. Please clarify the same.	It is clarified that the size of panel is mentioned keeping the site condition, however, upper tolerance upto 10% can be allowed w.r.t. length & width only. Depth of panel should not exceed tender requirement i.e. 2.4 ft.
19	We request you to amend Payment Terms as 70% along with Full Taxes against Delivery of Material at the site, 20% and 90% of Installation Cost after successful trials balance against PBG. Please consider the same.	It was clarified that payment terms will be as per tender.
20	As per Annexure-IV, Point 1.B, existing Panels will be used as JB, we understand that New Panel will be interfaced with these existing Panels, further have been written to replace all MCB, Fuses, TBs etc, New Panels along with New Items will be supplied, Please clarify why this is required.	Clarification is same as provided at point no. 3.

Bidders are requested to offer their bids as per tender conditions & clarifications made as above. Bidders are once again requested to visit the RSMML site to understand the scope of work of tender.

Further, tenderers are advised to keep visiting our website till due date/extended due date of tender for updates to the tender, if any.

General Manager (MM)