



भारत हेवी इलेक्ट्रिकल लिमिटेड

Bharat Heavy Electricals Limited

पारेषण व्यापार समूह, नोएडा / Transmission Business Group, Noida

REF: TBG/IT/TENDER/18-19/01

DATE: 24.04.2018

SUB: Tender for “Re-development of BHEL-TBG Integrated Business Management Solution with Database to latest version on as is form basis and development of additional modules”

Section-I

Background, Technical Specification & Scope of work:-

Bharat Heavy Electricals Ltd., a Maharatna Govt. of India Undertaking is an integrated power plant equipment manufacturer and one of the largest engineering and manufacturing companies of its kind in India. The company is engaged in the design, engineering, manufacture, construction, testing and commissioning and service of a wide range of products and services in the field of Power, Transmission, Industry, Transportation, Renewable Energy, Oil & Gas and Defence & Aerospace.

Transmission Business Group (TBG) is a unit of BHEL having headquarter at NOIDA, 4 Sector offices located at NOIDA, Vadodara, Kolkata & Hyderabad and around 40-50 sites spread all over India and overseas. TBG undertakes Switchyard & Substation works on EPC basis.

BHEL Transmission Business Group is having an in-house developed integrated Web Application named **TIBOMS (TBG Integrated Business Management Solution)**, developed in the year 2002-03 with **Asp.net as front end and SQL 2000 database as back end**. It was developed to cater to the requirements of various TBG functions viz. Project Management & Commercial, Engineering, Materials Management and Finance. Presently, total number of Forms is **668 (including asp and aspx pages)**.

Existing Application Details:

Technical Features:

- Operating System: Windows Server 2003 + SP2
- Front End: ASP. Net , ASP
- Back End: SQL Server 2000
- Reporting: Crystal Reports XI
- Scripting – VB .Net, JavaScript



भारत हेवी इलेक्ट्रिकल लिमिटेड

Bharat Heavy Electricals Limited

पारेषण व्यापार समूह, नोएडा / Transmission Business Group, Noida

Proposed requirement:

Re-development of existing system using latest available development platforms with latest operating system, ASP version, SQL Server 2016 and SQL Reports and development of additional modules including one year AMC. The application should be accessible through all web browsers.

Details of Modules:

Project Management and Engineering

Project Registration & controlling
Technical and Financial Work Order Generation
Billing Break up (BBU) Generation
Purchase Indent (PI) Generation & flow
Bill Of Quantity (BOQ) Generation
*Material Discrepancy report (MDR) generation & Flow
*Project Timelines and Status Updates
*Drawing Monitoring and Management
*Release for Construction (RFC) drawing monitoring

Procurement

Product Material Directory
Enquiry Generation along with Approval Workflow
Comparative Statement Generation
Purchase Order/Letter of Intent (LOI) /Work Order (WO) along with Approval Workflow
DAN (Despatch Advice Note) Generation along with Approval Workflows
DAN Integration with Vendor Billing Break Up (BBU)
Processing of Vendors Bills
Vendor portal
Supplier Performance Rating (SPR)
Supplier e-Payments

***Quality Management**

Material Inspection Request form
Capture the Schedule and Assign the Inspector for Inspection
Approval Workflows for MICC (Material Inspection Clearance Certificate) and MDCC (Material Despatch Clearance Certificate)
Material wise Inspection report



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

Bharat Heavy Electricals Limited

पारेषण व्यापार समूह, नोएडा / Transmission Business Group, Noida

Sales Management

Sales Invoicing Based on dispatch advice note (DAN)

Invoice against Civil and ETC works

Debit/Credit Notes

Cash settlement against invoices

*GST reporting

Complaint and Issue Management

Complaints Registration

Auto Allocation of Ticket Number

Provision to Forward to Concerned Stake Holder

Auto Escalation

***Subcontracting and Construction**

Bill Of Quantity (BOQ) Generation for Civil/ETC

Enquiry generation & flow

Comparative Statement Generation

LOI and Work Orders generation

Time extension Management

Contract Amendment (incl. SAR)

Online bill generation & processing

Subcontractor Portal

Contractor Performance Rating

***MIS Reporting**

Project Summary Reports

MIR Reporting for each module

Auto Alerts and Reminder on Due Activity

***marked modules are not existing in the application and are for new requirement**

Training & AMC

Vendor shall provide necessary training and user manual to employees for the application along with one year AMC support from handing over, with provision of further extension.



भारत हेवी इलेक्ट्रिकल लिमिटेड

Bharat Heavy Electricals Limited

पारेषण व्यापार समूह, नोएडा / Transmission Business Group, Noida

Time Frame

As per cl. no. 7.0 of the “Terms & Conditions of the contract”.

Jobs to be completed at the time of go-live

- Go-live of TIBOMS with re-developed existing application modules along with new modules and reports.
- Migration of existing database to latest SQL server database.
- Hands on training to BHEL-TBG employees.
- The vendor may choose any open source development tool(s) & free plug-ins/scripts, if required, free of charge.
- The vendor shall require to develop the application such that it is accessible to client machines through Internet Explorer / any Web-browser, requiring no special configuration to be made or any special software required to be installed before use.
- The software must incorporate industry standard security features for Administrator and users with audit trails.
- The vendor is required to transfer complete source code in CD-media (with access passwords, if any) of application software which shall be sole intellectual property of BHEL-TBG.
- The vendor shall prepare & submit system manual/User manual and Troubleshooting manuals in shape of 2 softcopies of all documentations including Design documents.
- The vendor shall provide AMC support for period of one year with provision for further extension.
- The vendor shall fix all bugs/codes, discovered during AMC period, free of charge.
- Data Integrity shall be maintained by vendor.
- The vendor shall provide the adequate provisions for amendments in web application.

DELIVERABLES

- Implementation Schedule with detailed activities & weekly targets.
- System Migration & Test Results of System to be carried out by vendor.
- Data migration with effect from a mutually agreed cut-off date.
- System Manual as per requirements of IT / BHEL-TBG.
- Source Code on CDs – 2 copies

ACCEPTANCE CERTIFICATE

The acceptance certificates in respect to application development and data migration shall be issued by TBG-IT department.

Section-II

Payment Terms

| <u>Sl.No.</u> | <u>Condition</u> | <u>Payment</u> |
|---------------|--|--|
| A | Successful re-development of existing modules | 65% of Sr. No. 1 of BOQ cum Price schedule |
| B.1 | Successful development of additional Web pages in existing modules | 65% of Sr. No. 2 of BOQ cum Price schedule (on pro-rata basis) |
| B.2 | Successful development of additional Modules. | 65% of Sr. No. 2 of BOQ cum Price schedule (on pro-rata basis) |
| C | Successful migration of data and go live. | 15% of Sr. Nos. 1 & 2 of BOQ cum Price schedule |
| D | Submission of documents and training as per technical specification. | 10% of Sr. Nos. 1 & 2 of BOQ cum Price schedule |
| E | Successful completion of contract and on issuance of the acceptance certificate by BHEL. | 10% of Sr. Nos. 1 & 2 of BOQ cum Price schedule |
| F | One Year Annual Maintenance Contract (AMC) | Quarterly Payment (Sr. No. 3 of BOQ cum Price schedule) |

Note:-

- 1) The payment shall be made to the vendor on certification of IT department of BHEL- TBG.
- 2) All decision of the IT department of BHEL- TBG with respect to the payments shall be final & binding to the vendor.



भारत हेवी इलेक्ट्रिकल लिमिटेड

Bharat Heavy Electricals Limited

पारेषण व्यापार समूह, नोएडा / Transmission Business Group, Noida

Section-III

Other conditions:-

- **Confidentiality:-** Vendor /Lessor and its representative shall, at all time , undertake to maintain complete confidentiality and integrity of all data, information, software, drawings & documents etc. belonging to the purchaser/lessee and also of the systems, procedures, reports, input documents, manuals. Results and any other company documents discussed and/or finalised during the course of execution of the order /contract.
- **Non -Disclosure Agreement:** - Non- Disclosure agreement shall be signed as per BHEL format (enclosed herewith) in compliance to information security Management systems.
- **Working Hours:-** 09.00 AM to 05.30 PM (Monday to Saturday)
Excluding Second & Last Saturday of the month
- Vendor should provide a 24 X 7 Contact no. (Mobile/ Landline) to BHEL TBG.
- Any faults reported by e-mail, telephone shall be attended by the vendor immediately
- The support level required for the services mentioned shall be as per BHEL/ TBG working hours.

THIRD PARTY NON-DISCLOSURE AGREEMENT

I, _____, on behalf of the _____ (Name of Company), acknowledge that the information received or generated, directly or indirectly, while working with BHEL on contract is confidential and that the nature of the business of the BHEL is such that the following conditions are reasonable, and therefore:

I warrant and agree as follows:

I, or any other personnel employed or engaged by our company, agree not to disclose, directly or indirectly, any information related to the BHEL. Without restricting the generality of the foregoing, it is agreed that we will not disclose such information consisting but not necessarily limited to:

- Technical information: Methods, drawings, processes, formulae, compositions, equipment, techniques, inventions, computer programs/data/configuration and research projects.
- Business information: Customer lists, project schedules, pricing data, estimates, financial or marketing data.

On conclusion of the contract, I, or any other personnel employed or engaged by our company shall return to BHEL all documents and property of BHEL, including but not necessarily limited to: drawings, blueprints, reports, manuals, computer programs/data/configuration, and all other materials and all copies thereof relating in any way to BHEL's business, or in any way obtained by me during the course of contract. I further agree that I, or any others employed or engaged by our company shall not retain copies, notes or abstracts of the foregoing.

This obligation of confidence shall continue after the conclusion of the contract also.

I acknowledge that the aforesaid restrictions are necessary and fundamental to the business of the BHEL, and are reasonable given the nature of the business carried on by the BHEL. I agree that this agreement shall be governed by and construed in accordance with the laws of country.

I enter into this agreement totally voluntarily, with full knowledge of its meaning, and without duress.

Dated at _____, this day of _____, 2018.

Name :

Company :

Signature :