

U.P. STATE BRIDGE CORPORATION Ltd.

E-TENDER DOCUMENT

(Total no. of pages: 19)



NIT No.:1852/141 MBC/2018-19 Date: 20-12-2018

Name of Work: Supply, erection, commissioning, test & trial of following lab testing equipment

1	Digital Rebound Hammer with Software (as per Annex. A-1)	01 Set
2	Profoscope Scanner (as per Annex. A-2)	01 Set
3	Ultrasonic Pulse velocity tester (as per Annex. A-3)	01 Set
4	Imaging Scanner for Concrete (as per Annex. A-4)	01 Set
5	Profometer rebar locatar with corrosion potential assessment kit (as per Annex. A-5)	01 Set

Earnest Money :Rs. 1.50 Lac (Rupees one lac fifty thousand only)

Period of supply : Within 45 days from the date of P.O.

S.No.	Description	Date	Time
1	Document downloading start date	22-12-2018	10:00a.m.
2	Document downloading end date	05-01-2019	05:00 p.m.
3	Bid submission start date	22-12-2018	10:00 a.m.
4	Online bid submission closing date	05-01-2019	5:00 p.m.
5	Tender hardcopy submission closing date	07-01-2019	1:30 p.m.
6	Techno-commercial bid opening date	07-01-2019	3:00 p.m.
7	Financial bid opening date	After evaluation of technical bid	

Note: Please visit our website www.bridgecorporationltd.com for details of terms & conditions and tender document.

Regd. Office :16, MADAN MOHAN MALVIYA MARG .LUCKNOW - 226 001

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FOR THE WORK: AS PER NIT

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Ref. No.1852/141 MBC/2018-19 Date 20-12-2018**NOTICE INVITING E-TENDER(SHORT TERM)**

E-Tenders are invited only from the manufacturers/authorized distributors/dealers for Supply, erection, commissioning, test & trial of the following lab testing equipments for quality control of bridge construction.

Sl No	Description of Items (as per specifications described in Annex. A-1 to A-5)	Qty.	EMD (Rs. in Lacs)	Description	Date	Time
01	Digital Rebound Hammer with Software	01 Set	1.50 Lacs	Document downloading start	22-12-2018	10:00 a.m.
02	Profoscope Scanner	01 Set		Document downloading end	05-01-2019	05:00 p.m.
03	Ultrasonic Pulse velocity tester	01 Set		Bid submission start	22-12-2018	10:00 a.m.
04	Imaging Scanner for Concrete	01 Set		Online bid submission closing	05-01-2019	5:00 p.m.
05	Profometer rebar locatar with corrosion potential assessment kit	01 Set		Tender hardcopy submission closing	07-01-2019	1:30 p.m.
				Techno-commercial Bid opening	07-01-2019	3:00 p.m.
				Financial Bid opening	After evaluation of technical bid	

Note: 1- Please visit our website www.bridgecorporationltd.com for details of terms & conditions and tender document.

2- Only those bids shall be considered for acceptance which clearly describe the specifications of equipments in accordance with requirements as per Annex. A-1 to A-5.

(Sanjay Srivastava)
Dv. Project Manager (M)

Copy to following for information:-

1. Joint Managing Director (M) U.P.S.B.C. Ltd., Lucknow.
2. Financial Controller, U.P. State Bridge Corporation Ltd., Lucknow.
3. Chief Manager (M), U.P.S.B.C. Ltd., Lucknow.
4. Notice Board.

Dv. Project Manager (M)

TENDER DOCUMENT SPECIAL CONDITIONS

U.P.State Bridge Corporation Ltd.(U.P.S.B.C.Ltd.) is an undertaking of Govt. of U.P. (India) hereby invites tender for supply, erection, commissioning, test and trial & transportation of above equipments, confirming to technical specifications of above equipments which are chronologically listed as per **Annexure-A-1, A-2, A-3, A-4&A-5** enclosed here with. These equipments are required for special quality tests to control and monitoring the quality of various structures of bridges.

The tender is invited in two-bid system. Part one will be **TECHNO-COMMERCIAL BID** which will be uploaded online as well as submitted in hard copy with EMD (Earnest Money Deposit) in one sealed cover superscribed as **TECHNO COMMERCIAL BID** with the name of equipment on the top of the envelope. Part two will be **FINANCIAL BID** which will be uploaded online.

The bidders are advised to study the terms and conditions attached with this tender as Section-3 **GENERAL CONDITIONS OF N.I.T.** to avoid any risk of rejection. Prices should be quoted as per enclosed **Financial Bid Document** given in **Section-5**.

One set of tender document duly signed and stamped on each page with EMD and supporting documents should be submitted with Techno Commercial Bid as a token of acceptance of all terms and conditions of the N.I.T.

NIT No:1852/141 MBC/2018-19 Date 20-12-2018

Sl. No	Description	Date	Time
1	Document downloading start date	22-12-2018	10:00 a.m.
2	Document downloading end date	05-01-2019	05:00 p.m.
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4	Online bid submission closing date	05-01-2019	5:00 p.m.
5	Tender hardcopy submission closing date	07-01-2019	1:30 p.m.
6	Techno-commercial Bid opening date	07-01-2019	3:00 p.m.
7	Financial Bid opening date	After evaluation of technical bid	

E-Tenders are invited only from the manufacturers/authorized distributors/dealers for Supply, erection, commissioning, test & trial of the following lab testing equipments subject to the terms and condition mentioned in tender documents Section-3 only.

Sl. No	Description of Items (as per specifications described in Annex. A-1 to A-5)	Qty	EMD (Rs. in Lacs)	Cost of tender document
1	Digital Rebound Hammer with Software	01 Set	Rs1.50 Lacs (Rupees one lac fifty thousand only)	Cost of tender document Rs.3000.00 + G.S.T. @ 18%, i.e. total cost Rs.3540.00. Payment shall be made by demand draft in favour of "U.P. State Bridge Corporation Ltd." payable at Lucknow, to be submitted in separate envelope along with hard copy of tender.
2	Profoscope Scanner	01 Set		
3	Ultrasonic Pulse velocity tester	01 Set		
4	Imaging Scanner for Concrete	01 Set		
5	Profometer rebar locatar with corrosion potential assessment kit.	01 Set		

Note:-

- (1) All manufacturers/authorized distributors/dealers are advised to get them enrolled on e-tendering portal (<http://etender.up.nic.in>)
- (2) Tender documents are available on website: www.e-tender.up.nic.in which can be downloaded.
- (3) All interested firms are requested to upload their competitive bid at <http://etender.up.nic.in> on or before the scheduled closing date & time.
- (4) Cost of tender document is Rs.3000.00 + G.S.T. @ 18%, i.e. total cost Rs.3540.00 in the form of demand draft in favour of "**U.P. State Bridge Corporation Ltd.**" payable at Lucknow to be submitted in separate envelop along with hard copy of tenders on or before date of submission.
- (5) In case of holiday on the date of opening, the tenders will be received on next working day at the same time at Head Quarter, Lucknow.
- (6) **Earnest money of Rs. 1.50 Lac is to be deposited with the tender valid upto 30-06-2019. Performance security deposit shall be submitted by successful bidder. EMD of unsuccessful bidders shall be returned back after finalization of tender.**
- (7) Details given in the tender document are over riding on this tender notice. U.P.S.B.C. Ltd. Lucknow reserves the right to reject any or all tenders without assigning any reason thereof.
- (8) The quantity is indicative only which may vary on either side, hence no claim in this regard shall be entertained.
- (9) Any conditional tender shall liable to be rejected without assigning any reason thereof.

For U.P. State Bridge Corporation Ltd.,

(Sanjay Srivastava)
Dy. Project Manager (M)

General Conditions of NIT**(For purchase of equipment)**

1-	Definition	Purchaser means U.P.State Bridge Corporation Ltd. Lucknow and Bidder means such persons/firms/company or other authority as may supply or agree to supply plant and machinery or services to the purchaser.
2-	Submission of Tender	One envelope, superscribed on top TECHNO-COMMERCIAL BID will be of Technical offer consisting of EMD, complete details of plant/machine/equipment being offered with all technical specifications, literature, name and details of buyers with their addresses, telephone number, e-mail address etc. The bidder shall submit authorization from OEM/Manufacturer addressed to the Managing Director U.P. Bridge Corporation Ltd., clearly mentioning the Tender No. This authorization is to be submitted in the Techno Commercial offer. Non submission of above authorization shall result in rejection of the bid. The second envelope will be of Earnest Money Deposit (EMD) in a separate sealed envelop superscribed on top EMD. It is essential to quote rates and taxes online in Financial Bid. Both the envelopes must be enclosed in a sealed cover which must have the NIT No. and date with due date of submission & date of opening with name of Plant/machine/equipment duly superscribed on top of it and to be sent under registered post with acknowledgement/speed post/ courier /personally in tender box. Tender must be forwarded with due allowance to avoid any postal delay. U.P.S.B.C.Ltd. will not be responsible for any postal delay or loss of tender documents.
3-	Scope of Work (a) (b)	Supply: The plant, machinery and equipment to be supplied shall be newly manufactured and strictly as per specification given in Section-5 (Annexure-A-1 to A-5). Commissioning & Testing: The supplier shall also carry out commissioning and testing of the equipment at the place/site as per instructions & schedule given by U.P.S.B.C. Ltd. Head Office. All facilities required for the above such as technical expertise, tools and tackles etc. shall also be the responsibility of the supplier. However U.P.S.B.C.Ltd. shall provide details of testing sites and other assistance required to carry out tests and inspections. Commissioning and testing shall be treated as complete only after the equipment gives trouble free service & testing results. Satisfactory testing reports shall be given by Incharge of Quality Cell.
4-	Tender opening	All hard copies of tenders must reach this office / dropped in tender box upto 1:30 p.m. on due date of opening of e-tenders. The Techno Commercial Bid will be opened on due date at scheduled time in the office of the undersigned or his authorized representative. Financial Bid, of only those firms will be opened who qualify after evaluation of Techno-Commercial Bid.
5-	Prices (1) (2)	The price quoted shall be for the place (Lucknow) of delivery as per price schedule attached as per Section-8. All details of price which will be payable to the supplier including Freight, Insurance, Taxes & Duties should be clearly mentioned in the financial bid. Prices shall remain firm and no escalation shall be permissible. However any statutory variation in taxes in State / India, after the award of work till dispatch shall be paid / adjusted on production of documentary evidences.
6-	Currency	Prices and rates shall be quoted and paid in Indian Rupees (INR) only by the tenderer, manufacturer or authorized distributor.
7-	Delivery period	The delivery period for the supply of following equipments will be 45 days (Forty Five days) from the date of P.O. The equipments must be supplied in good & intact condition in all respect. Thereafter one week for test and trial and commissioning. 1- Digital Rebound Hammer with Software. 2- Profoscope Scanner. 3- Ultrasonic Pulse velocity tester.

		4- Imaging Scanner for Concrete. 5- Profometer rebar locator with corrosion potential assessment kit.
8-	Delay in (a) Delivery (b)	Please note that delivery is the essence of N.I.T./ P.O. and the supplies must be made within the delivery period mentioned in clause no (07). If the tenderer can not arrange the supply during above stipulated period, an alternative delivery period may be offered in clear terms, but the delivery period mutually agreed will be firm & binding on the supplier. If the delivery is not completed within prescribed time or within any time extension given by U.P.S.B.C.Ltd., the supplier shall be liable to an unconditional penalty of 0.5% of the basic price of the machine/equipment per week subject to the maximum of 10% of the total cost of machines. In addition the purchaser will have the right to cancel the purchase order and make purchases from alternate source.
9-	Erection, test-trial and commissioning	The erection of the equipment and its test-trial, commissioning is to be completed by the supplier as per stipulated time given in clause no. 07 Test, trial and commissioning of above all equipments shall be done in presence of In-Charge of Quality Cell and authorized officers who will also make all necessary arrangements for test & trial of these equipments at few construction sites.
10-	Earnest Money Deposit(EMD)	Rs. 1.50 Lacs (Rupees one lac fifty thousand only) The amount mentioned above must be deposited separately as earnest money along with the tender in the form of A/C Payee Demand Draft in favour of U.P.State Bridge Corporation Ltd. payable at Lucknow or in the form of FDR the same should be duly pledged in favour of U.P.S.B.C.Ltd. Lucknow or Bank Guarantee on the enclosed format (Section-6) from any Scheduled Bank of India valid upto 30-06-2019. The validity of the offer given by the firm shall also be valid up to 180 days (Six months) from the date of opening of the tender. The copy of EMD draft/FDR/Bank Guarantee to be uploaded along with Techno Commercial Bid documents. If the bidder withdraws/modifies his bid for any reason during validity of the bid, E.M.D. shall be forfeited. Tenders received without earnest money shall not be considered and EMD in the shape of B.G. if not in proper form shall be liable to rejection. Earnest money deposit of unsuccessful bidders will be returned after finalization of the tender.
11-	Performance Security Deposit(PSD)	The successful bidder shall be required to submit performance security deposit of 10% of the value of the P.O. within 10 days from the date of the receipt of letter of acceptance (LAO). After submission and verification of PSD, Purchase Order will be issued. An unconditional, irrevocable Performance Security Deposit in the form of account payee demand draft in favour of U.P.S.B.C.Ltd. Lucknow or in the form of F.D.R., the same should be pledged in favour of U.P.S.B.C.Ltd. Lucknow or Bank Guarantee on the endorsed format (Section-7) for a period of 15 months from the date of letter of acceptance. In case of failure to deposit Performance Security Deposit within given time, the earnest money deposit will stand forfeited for which no separate notice will be issued. The Performance Security Deposit shall be released after completion of above period and satisfactory performance of Machine.
13-	Warranty	The manufacturer/bidder shall provide complete warranty against any manufacturing defect, design and such other defects for a period of 12 months from the date of commissioning. All such defects shall be removed by the bidder at his own cost within a reasonable period of time as agreed with U.P.S.B.C. representative.
14-	Arbitration settlement of disputes	In case of any dispute arising out of agreement or related to any matter there to whether during or after expiration of the agreement the same will be referred to the sole arbitrator of any person nominated by M.D. of U.P.S.B.C.Ltd. and award of sole or arbitrator given in such reference shall be final and binding on the parties to this agreement.
15	Jurisdiction	The contract shall in all respect be construed and operative in conformity with the Indian law and be subject to the jurisdiction of Lucknow courts (INDIA)
16-	Force-Majeure	Force Majeure shall mean unforeseen cause beyond the control and without the fault or negligence including but not restricted to acts of God or cause by war, civil commotion riots, flood, epidemics, freight embargoes and obstruction of navigation port or exit on entry or acts of Governments.
17-	Payment Terms:	90% payment along with 100% taxes, duties, transit insurance and transportation

		charges shall be payable against delivery of machine in good and intact condition at consignee's place, within seven days from the date of receipt of machines. Balance 10% payment shall be payable after satisfactory commissioning and testing of equipment and training of U.P.S.B.C.Ltd. personnels, within 30 days from the date of commissioning and training of equipment. The payment will be made through Demand Draft/RTGS.
18	Name of Consignee	Sri ArvindDev, Manager Equipment, Quality Cell U.P.S.B.C. Ltd. Lucknow. Mobile No. 0-8765977738
19	Training of UPSBC Ltd. Personnels	The supplier shall have to provide free of cost training of U.P.S.B.C.Ltd staff at its premises to handle, operate and carry out various tests as well as to make them enable to interpret the results and reports in desired manner.
20	Documents:	Following documents shall be submitted with :
	(1)	<u>Techno-Commercial Bid:</u> <ul style="list-style-type: none"> • Technical specification in prescribed format enclosed at section-5 (Annexure A-1 to A-5) with printed catalogues. • Earnest Money Deposit • Tenders Specific authorization letter from OEM. • List of purchasers with their addresses, phone numbers details. • All filled in formats and statements to be attached, except Section-8. If more space is required then other information should be submitted in a separate sheet in same sequence. • Annual Sale Turn Over for the last five year along with audited statement..
	(2)	<u>Financial Bid:</u> <ul style="list-style-type: none"> • To be submitted online in the format of financial bid. • Please fill the rate of IGST @..... • Please fill the rate of SGST @..... • Technical specification of the Plant/Machinery/Equipment offered.
	(3)	<u>DOCUMENTS /CERTIFICATES TO BE SUBMITTED ALONGWITH THE INSTRUMENT/EQUIPMENT</u> 1-Operation and maintenance manual : 2 sets 2-Commissioning and trouble shooting instructions : 2 sets 3-Write-up on safety measures / provisions : 2 sets 4-List of service centres with name and number of contact person : 2 sets 5-Provisions of demonstration and training of UPSBC staff.
21	Right of acceptance:	U.P.State Bridge Corporation Ltd. Lucknow reserves the right to reject any or all tenders without assigning any reason thereof and tenderer shall have no claim on this account. Any conditional tender or tenders not in accordance with the above instruction and conditions may be summarily rejected.
22	Variation Clause	The quantity mentioned in the tender can vary on either side to any extent and no claim will be entertained for reduced quantity on any account.
23	Note	(1) The turn over of the tenderer should not be less than Rs. 10 Crores per annum. for last three years. (2) In case of any failure of equipments during test, trial and commissioning, the same shall be replaced / rectified by supplier at his own cost. (3) The defective parts are to be replaced free of cost by the supplier during the warranty period of the equipment (4) In case of any technical dispute regarding Technical Specification of machine, the decision of Managing Director. U.P.S.B.C. Ltd. will be binding on the tenderer. (5) Online submission of tender is essential. If the tender is submitted only in hard copies shall be rejected.

(Sanjay Srivastava)
Dy. Project Manager (M)

REQUIREMENT/SPECIAL CONDITION FOR TECHNO-COMMERCIAL OFFER

The tenderer/manufacturer/authorized distributor should submit following particulars.

Sl.No.	Question	Answer to be given by the manufacturer/authorized dealer.
1	Name, address, fax & e-mail of the company	
2	Complete General and Techno Commercial profile of the company may be given in brief including its operation in India.	
3	Annual sales turn over for last three years (enclose audited statement for last three years.)	
4	Type of Technology being offered (complete Technical literature to be furnished for Evaluation)	
5	Name of client their address, phone no. and fax etc. with location where these equipments have been used.	
6	The manufacturer/authorized/distributor/dealer should have a registered office in India and authorization of the appropriate authority for its operation in India must be enclosed.	
7	The bidder should have a service and repair facility with a team of qualified and trained engineers in U.P./Delhi. Details of location of such facility along with address, phone number and fax should be attached with the offer.	
8	Please fill the rate of IGST	
9	Please fill the rate of SGST	
10	The bidder should have sufficient operational back-up and training facilities to train U.P.S.B.C. operating and maintenance staff.	

Note: If more space is required then this format can be typed on a separate sheet in the same Chronicle order.

Signature & Seal of Bidder

**TECHNICAL SPECIFICATIONS FOR
DIGITAL REBOUND HAMMER WITH SOFTWARE**

SL. No.	Description	Requirement	Whether bidder's equipment meets required specifications	
			Yes	No.
01	Values	Automatic conversion of rebound values (Q values)		
02	Wireless equipment	Portable and user friendly, the instrument should be wire free during testing and be able to carry out tests at critical places. Display should be interactive.		
03	Battery option	Internal battery with low power consumption		
04	Measuring range	Measuring range should be between 10 to 100 N/mm ²		
05	Connectivity	PC connectivity (through USB) to transfer the stored readings		
06	Self-correction	Automatic self-correction of readings based upon the impact direction		
07	Result	Able to calculate median, mean value and standard deviation automatically		
08	Charging option	USB charging port.		
09	Interface language	Language free user interface		
10	Button interface option	Single button user interface		
11	Correction option	Possibility to check the strength through carbonation corrections		
12	Carry bag	Instrument should have a safe carry case		
13	Data export option	Provision to export the data to third party software		
14	Conversion curves	User should be able to define the conversion curves (Polynomial or exponential)		
15	Angle	Provision for testing using the instrument in any angle without any correct ions		
16	Testing standards	ASTM C805 EN 12504-2, JGJ/T-23-2001		
17	Impact energy	2.207 Nm		
18	Operating temperature range	10°C – 50°C		
19	Memory capacity	Around 400 series with 10 Values per series		
20	Maximum number of impacts per series	99		
21	Battery Life	5000 impacts between charges including demonstration etc., complete.		
22	Tilt angle	Equipment should have +/-15 deg. Tilt function		
23	Functions	Equipment should have predefined curves, custom curves, form factor correction function; impact angle correction; carbonation correction; user defined and standardized statistics etc.		
24	Software	User friendly software to down load the data should be provided.		
25	Accessories	Grinding stone,USB cable.		

Note :1- Bidder must fill above last two columns and submit in hard copies with Techno-commercial bid.

2- Catalogue & Literature must be attached with make & model offered.

Dy Project Manager (M)

**TECHNICAL SPECIFICATIONS FOR
PROFOSCOPE SCANNER**

SL. No.	Description	Requirement	Whether bidder's equipment meets required specifications	
			Yes	No.
01	Measuring Range	Upto 185mm		
02	Rebar Diameter Estimation	Upto cover of 64mm (2.5 inch)		
03	Power Supply	Power source 2X1.5 Volt AA(LR6) batteries		
		Voltage range 3.6 Volt to 1.8 Volt		
04	Current Consumption	Power on, backlight off ~ 50 mA		
		Power on, backlight on ~ 200 mA		
		Sleep mode ~ 10 mA		
		Power off < 1uA		
05	Battery Lifetime	Backlight off > 50 h		
		Backlight on > 15 h		
06	Time Outs	Sleep mode 30 s		
		Auto shut down 120 s		
07	Environmental Conditions	Temperature range – 10 °C to 60 °C		
		Humidity range – 0 to 100 rH		
		Protection Class – IP54		
		Standard and Regulations Applied – BS1881 Part 204; DIN1045; SN 505 262; DGZfP B2		
08	Storage range	49,500 measurements total (500 objects with 99 measurements)		
09	Software	Compatibility ProfoLink: Windows 2000, XP, Vista, 7, 8		

Note :1- Bidder must fill above last two columns and submit in hard copies with Techno-commercial bid.
2- Catalogue & Literature must be attached with make & model offered.

Dy Project Manager (M)

**TECHNICAL SPECIFICATIONS FOR
ULTRASONIC PULSE VELOCITY TESTER**

SL. No.	Description	Requirement	Whether bidder's equipment meets required specifications	
			Yes	No.
01	Functions	The equipment Housing should be specially designed to be used on-site in harsh environments		
		Screen should have high resolution for allowing best possible analysis of the measured waveforms.		
		Dual Core Processor for supporting diverse communication and peripheral interfaces		
		Modular and Expandable with Pulse Velocity and Pulse Echo transducers.		
		Compressive strength and SONREB method		
		Capable for determination of crack depth		
02	Scan Modes	A-Scans ; Line Scans ; Data Logging ; Area Scan		
		Zoom and scroll function for precise A-Scan inspection		
		Able for on board storage and review of waveforms		
		Settings should be directly accessible on measuring screen of the equipment		
		Dual cursor for manual A-Scan evaluation		
		Separate cursor to measure signal amplitude		
		Automatic and manual triggering and user adjustable trigger threshold		
03	Range	0.1 – 7930 us		
04	Resolution	0.1 us		
05	Display	Touch screen 7" colour display 800x480 pixels		
06	Pulse Voltage	UPV 100 – 450Vpp		
07	A Scan update rate	Upto 40 Hz		
08	Transducer	54 kHz – 2 no.		
09	Bandwidth	20 to 500 kHz		
10	Receiver Gain	1x - 10000(0-80dB)[11steps]		
11	Memory	Internal 8GB Flash memory		

Note : 1- Bidder must fill above last two columns and submit in hard copies with Techno-commercial bid.
2- Catalogue & Literature must be attached with make & model offered.

Dy Project Manager (M)

**TECHNICAL SPECIFICATIONS FOR
IMAGING SCANNER FOR CONCRETE**

SL.N.	Description	Requirement	Whether bidder's equipment meets required specifications	
			Yes	No.
01	Functions of Equipment	The equipment Housing should be specially designed to be used on-site in harsh environments		
		Screen should have high resolution for allowing best possible analysis of the measured waveforms.		
		Control Unit of the equipment should have 8 GB Flash memory or more.		
		Dual core processor for supporting diverse communication and peripheral interfaces		
		Consist of 8 channel array type antenna with up to 24 Nos of transducers.		
		Transducers in the antenna array should be of low frequency transverse (shear)		
		Wave type. Dry point contact transducers with ceramic wear tips are preferred.		
		Able to perform the thickness measurement in thick concrete elements and bridges.		
		Capable for Determination of Voids, honeycombing and depth and extent of delaminations		
		Capable to provide Real-time B-scan visualization		
		Capable to provide Panorama mode for extended scans over several meters		
		Zoom and scroll function for precise A-Scan inspection		
		Settings should be directly accessible on measuring screen of the equipment		
		Dual cursor for manual A-Scan evaluation		
Transducer array should have Display for status information and immediate feedback				
Transducer array should have Buttons to control main scanning functions				
Specification of Array Transducer				
02	Gain	0 to 80 GB		
03	Analog Bandwidth	15 to 100 kHz		
04	Nominal Transducer Frequency	50kHz shear wave		
05	Measuring Range	Ca. 1m depending upon the concrete quality		
06	Range Resolution	0 to 1000 us/1us		
07	Pulse Shape	Square wave		
08	Pulse Delay	8 to 200ms		
09	Number of Channels	8 (with upgrade option to 16)		
10	Battery Lifetime	>4h		
11	Dimensions	240 x 273 x 153mm		
12	Weight	~3KG		
Specification of Control Unit				
13	Display	Touchscreen Display 7" colour 800 x 480 pixels		
14	Memory	Internal 8 GB flash memory		
15	Language	Regional setting Metric and imperial units and Multilanguage and time zone supported		
16	Power	Input 12V +/-25 % 1.5A		
17	Battery	3.6V, 14Ah		

SL.N.	Description	Requirement	Whether bidder's equipment meets required specifications	
			Yes	No.
18	Battery Lifetime	>8 h(in standard operating mode)		
19	Humidity	<95% RH, non -condensing		
20	Operating Temperature	-10 to + 50 °C		
21	IP Rating	IP54		
22	Dimension	250 x 162 x 62mm		
23	Weight	~1.65 Kg(including Battery)		

Note :1- Bidder must fill above last two columns and submit in hard copies with Techno-commercial bid.
2- Catalogue & Literature must be attached with make & model offered.

Dy Project Manager (M)

**TECHNICAL SPECIFICATIONS FOR
PROFOMETER REBAR LOCATOR WITH CORROSION POTENTIAL ASSESSMENT KIT**

SL. No.	Description	Requirement	Whether bidder's equipment meets required specifications	
			Yes	No.
01	Functions of Equipment	The equipment control should be touchscreen with illustrative display and assisted workflow.		
		Should allow the On-site post processing of the measured data		
		Should have Rugged housing for harsh environments		
		Dual-core processor for fast data acquisition		
		Dedicated software for efficient custom reporting		
		Able to perform both rebar location and corrosion mapping through single control unit.		
		For corrosion mapping the equipment should have the facility to be upgraded to wheel electrodes which allow the fastest and most efficient on site testing.		
		Intuitive user friendly interface for data acquisition		
		Buttons on equipment should indicate measuring path direction		
		Support Customizable text options that can be entered for the specific locations		
		Improved digital filtering to remove the effect of external noise (civil and industrial power sources).		
		Customizable Distribution, Cumulative Distribution, Chipping Graph Views		
		Predefined ASTM compliant layout		
Specification of Control Unit				
01	Display	7" colour display 800X480 pixels		
02	Memory	Internal 8 GB flash memory		
03	Language	Regional settings Metric and imperial units and multi-language and time zone supported		
04	Power	Input 12 Volt +/-25%/1.5Amp.		
05	Diamensions	250X162X62 mm		
06	Weight of Display device	About 1525 g (incl. battery)		
07	Battery	3.6 Volt, 14 hr.		
08	Battery Lifetime	>8h (in standard operating mode)		
09	Humidity	< 95 % RH, non-condensing		
10	Operating Temperature	-10 ⁰ C to +50 ⁰ C		
11	IP rating	Touch screen IP54, universal probe IP67		
Specification for Cover Meter/ Rebar Locator				
01	Cover measuring range	Up to 185 mm (7.3 Inch)		
02	Cover measuring accuracy	± 1 to ± 4 mm (0.04 to 0.16)		
03	Measuring resolution	Depending on diameter and cover		
04	Path measuring accuracy	± 3 mm (0.12 inch.) 0.5 % to 1.0 % on smooth Surface of measure length		
05	Diameter measuring range	Cover up to 63 mm (2.50 inch.)		
06	Diameter	up to 40 mm (# 12)		
07	Diameter measuring accuracy	± 1 mm (± # 1) on single rebar		

SL. No.	Description	Requirement	Whether bidder's equipment meets required specifications	
			Yes	No.
08	Applications	Cover Measurement Diameter Estimation 1-Layer NRC Cover Calibration Single-Line Scan Multi-Line Scan Area Scan Cross-Line Scan		
Specification for Corrosion Potential Kit				
01	Voltage measuring range	-1000 to + 1000 mV		
02	Voltage resolution	1 mV		
03	Impedance	100 MΩ		
04	Sampling rate	900 Hz		
05	Standards and guidelines	ASTM C876, RILEM TC 154-EMC, DGZfP B3, SIA 2006, UNI 10174, JGJ/T 152, JSCE E 601,		
06	certification			

Note :1- Bidder must fill above last two columns and submit in hard copies with Techno-commercial bid.
2- Catalogue & Literature must be attached with make & model offered.

Dy Project Manager (M)

The Bidder shall complete either the following form of Bank Guarantee or may provide another security acceptable to the purchaser.

FORM OF EMD (BANK GUARANTEE)
(To be submitted on the prescribed Stamp as per prevailing Stamp Act in U.P.State)

Whereas.....(Name of Bidder)(hereinafter called "the Bidder") has submitted his Bid dated.....(date) for the execution of.....(Name of Contract) (Hereinafter called 'The Bid')

KNOW ALL PEOPLE by these presents that we.....(Name of Bank) of.....having our registered office at.....(Name of purchaser)(Hereinafter called" the purchaser") in the sum of(A) for which payment will and truly to be made to the said Purchaser the Bank binds himself, his successors and assigns by these presents.

A-The Bidder should insert the amount of the guarantee in words and figures.

SEALED with the Common Seal of the said Bank this.....day of.....20.....

(1)If the bidder withdraws his Bid during the period of Bid validity specified in the form of Bid.

Or

(2) If the bidder, refuses to accept the correction or errors in his Bid.

Or

(3) If the bidder having been notified of the acceptance of his bid by the purchaser during the period of bid validity.

(a) Fails or refuses to execute the form of agreement in accordance with the instruction to bidders, if required

Or

(b) Fails or refuses to furnish the Performance Security, in accordance with the terms and conditions.

We undertake to pay to the purchaser up to the above amount upon receipt of his first written demand without the purchaser having to substantiate his demand provided that in his demand the purchaser will note that the amount claimed by him is due to his owing to the occurrence of one or both of the two conditions specifying the occurred condition or conditions.

The Guarantee will remain in force up to and including the date 180 days after the date of expiry of the bid validity deadline for as stated in the terms and conditions or as it may be extended by the purchaser, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this guarantee should reach the Ban k not later than the above date.

DATE;.....

SIGNATURE OF THE BANK.....

WITNESS.....

SEAL.....

SIGNATURE, NAME & ADDRESS.....

PERFORMANCE BANK GUARANTEE(UNCONDITIONAL)
(To be submitted on the prescribed Stamp as per prevailing Stamp Act in U.P.State)
(Performance Security Deposit)

To.....(Name of purchaser)
.....(Address of the Purchaser)

WHEAREAS.....(Name and Address of supplier)(Hereinafter called the supplier") has undertaken in pursuance of Contract no.....
dt.....to supply.....(Name of contract and brief description of supply(Herein after called "the contract") a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the contract.

And where as we have agreed to give the supplier such a Bank Guarantee.

Now therefore, we hereby affirm that we are the Guarantor and responsible to you on behalf of the supplier for total of Rs.....(amount of guarantee).....(amount in words)'A" and we undertake to pay you upon your first written demand and without cavil or argument, any sum or sums within the limits of.....(amount of Guarantee) as aforesaid without any need to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said amount from the supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract or of the works to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until the date.....

An amount is to be inserted by the guarantor, representing the percentage of the contract price specified in the contract.
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SIGNATURE AND SEAL OF THE GUARANTOR

Name of Bank.....
Address.....
Date.....

U.P. State Bridge Corporation Ltd. Lucknow

(NIT No.1852/141MBC/2018-19 dt.20 / 12/2018)

FINANCIAL BID DOCUMENT

Sl. No	Description of Equipment (as per Section-5 : Annex. A-1 to A-5)	Qty.	Basic rate including Pkg./Insurance/ Frieght (Rs.)	IGST @ (Rs.)	SGST @ (Rs.)	Net FOR Price (Rs.)
1	Digital Rebound Hammer with Software.	01 Set				
2	Profoscope Scanner.	01 Set				
3	Ultrasonic Pulse velocity tester.	01 Set				
4	Imaging Scanner for Concrete.	01 Set				
5	Profometer rebar locatar with corrosion potentialassessment kit.	01 Set				
	Grand Total:					

CONDITIONS:

- 1- The prices quoted as above will remains firm during the period of the purchase order. It may please be clearly noted that offer with stipulations for escalation in price during this period are liable to our right rejection.
- 2- The quantity indicated in the N.I.T. may vary on either side to any extent and no claim will be entertained for reduced quantity on any account.
- 3- Tenders shall be submitted along with the following documents.
 - a. Income Tax clearance certificate.
 - b. Duty executed power of attorney in original along with two certified copies.

Signature and seal of Tenderer