

### NOTICE INVITING TENDER (NIT)

Sealed tenders are invited on behalf of the Assistant General Manager, State Bank of India, RASMEC, Shornur from the empanelled electrical contractors of Bank for the following work:

i) Name of the work	<b>Tender for Electrical work at RASMEC, Shornur</b>
ii) Last date & time of receipt of tender	<b>Before 3:00PM on 08.09.2017</b>
iii) Date & time of opening of tender	<b>3:30 PM on 08.09.2017</b>
iv) Earnest Money Deposit (EMD)	Rs. 9,000/- (Rupees nine thousand only) as Demand draft drawn in favour of State Bank of India, payable at Thrissur.
v) Validity of tender	6 (six) months from the date of opening of the tender.
vi) Time for completion	<b>30 days</b> from the date of issue of work order or handing over of site whichever is later.
vii) Retention Money	2.5% of gross value of work done less the EMD, which will be released after the expiry of defect liability period.
vii) Defect Liability Period	12 (twelve) months from the date of virtual completion of the work.
ix) Value of work for interim bills	Minimum 60% of works based on total work order amount to be completed before submission of interim bills.

1. The contractor shall visit the site of work to ascertain the working conditions and local authorities' regulations/ restrictions and other information required for proper execution of the work.
2. Tender without EMD in proper form will be rejected. The EMD submitted for other works in the past will not be adjusted against the EMD for this work. Such request will not be entertained and tender without fresh EMD is liable to be rejected.
3. The EMD shall stand absolutely forfeited, if the tenderer revokes/withdraw his tender at any time within the validity period when he is required to keep his tender open for acceptance by Bank or if the contractor fails to enter into a formal agreement with Bank or fails to pay the ISD or fails to commence the work within the stipulated time.
4. The rate quoted should be firm. All Taxes applicable in vogue like GST, or any other tax on materials or on finished work should be indicated clearly and Bank shall not consider any claim whatsoever in this regard. GST or any other tax applicable **at the prevailing rates will be deducted from contractor's bill as applicable.**
5. Tender is to be submitted to **The Chief Manager (GB), State Bank of India**, Administrative Office, II Floor, West Pallithamam Building, Karunakaran Nambiar Road, Thrissur- 680020. in a sealed cover containing Cover- 1 and Cover- 2 separately and superscribed "**Tender for Electrification work at SBI RASMEC, Shornur**" on top of the covers as under:-

Cover- 1 shall contain EMD in required form and Cover- 2 shall contain the offered price in the prescribed format enclosed with this notice duly filled. No conditions other than special rebate, if any, shall be accepted.

6. Cover– 1 shall be opened at the above mentioned time in presence of the tenderers or authorized representatives who desire to be present. After opening of Cover–1, Cover–2 will be opened on the same date in the same venue, if no condition is stipulated. Conditional tenders are liable to be rejected. The Bank will not be responsible for delay in submission of the tenders due to postal irregularities or any other reasons.

7. Tenders along with this NIT are to be submitted in the annexed format. Rate should be quoted for each item both in figures and in words clearly and legibly. The amount for each item should be worked out carefully and the requisite total shall be given. Each page of the NIT shall be signed by the tenderer with the seal of the firm and corrections/overwriting shall be authenticated by putting the initial of the tenderer with the seal of the firm. If any discrepancy/ difference is found on checking between rates quoted by the contractor in words and in figures or in the amount worked out by him the following procedure shall be followed:-

a) When there is a difference between rates in figures and in words, the rate quoted in words shall be taken as correct.

b) When the amount of an item is not worked out by the contractor or it does not correspond with the quoted rates written in words or in figures, the rate quoted in words shall be taken as correct and corresponding amount shall be worked out.

c) When the rate quoted by the contractor in words and in figures tallies but the amount is not worked out correctly, rate quoted by the contractor shall be taken as correct and not the amount.

8. Any tender in which any of the prescribed conditions are not fulfilled or incomplete in nature is liable for rejection.

9. Liquidated damage (LD) for delay in completing the work within the stipulated time under normal circumstances shall be recovered from the amount due to the contractor. The quantum of LD shall be 0.5% of the contract value per week subject to a maximum of 5% of the accepted tender amount.

10. Bank does not bind itself to accept the lowest tender and reserves the right to it to accept or reject any or all tender(s) without assigning any reason thereof. The notification of award of work shall be made to the successful tenderer in writing.

Place: Thrissur

Date 23.08.2017

Chief Manager (GB)

State Bank of India,  
Administrative Office

II Floor, West Pallithamam Building

Karunakaran Nambiar Road, Thrissur 680020

Agreed to execute the work as per the above terms and conditions

Place:

(signature & seal of Tenderer)

Date :

**List of approved make of materials to be used**

<b>S.No.</b>	<b>Items</b>	<b>Approved Makes</b>
1	LED Luminaire of size 2 ft. x 2 ft.	Phillips – Green Square RC 140B/ 171BWipro – Spacio LED LM15-411GE – Maple GCR036.56MO
2	LED Tube light fittings of 1200 mm. with internal driver	Philips – Master LED tube Wipro – PRO LED tube
3	LED downlighter of 15W	Phillips – Green LED i Wipro – Iris LED-LD71-121 GE – FERN G2 12W R STD
4	CFL downlighters of 2x18W with lamps	Phillips – FBS 085 Wipro – Venus WCP 27213/18 Bajaj – Product Code: 530932
5	LED Spot Lights	Phillips – Green Spot Range BBS311 Wipro – CRDL10R010HP60
6	LED Bulk Head Fittings	Philips – WT202W P LED 6S CW PSU S1 PC P3495. Or Its Equivalent in Wipro & GE
7	MCCB	LEGRAND/ABB/L&T/SIEMENS
8	MCB/ELCB/RCBO/RCCB	LEGRAND/SIEMENS/HAGER/GE
9	DB /MCB ENCLOSURES	LEGRAND/SIEMENS/SCHNIDER ELECTRIC/HAGER
10	Multi strand FRLS copper wire	FINOLEX / GLOSTER / RR CABLES
11	Armoured UG cable with Al. Conductor	GLOSTER/FINOLEX/UNIVERSAL/ NICCO
12	Modular Switches/Socket/Telephone sockets etc.,	LEGRAND-Myrius/MK Blenze/ SIEMENS
13	Electronic Fan Regulator	LEGRAND/SIEMENS/PHILIPS
14	MS Conduit	VIMCO ISI MARKED
15	PVC Conduit	BALCO/KONSEAL-ISI MARKED
16	Ceiling Fans/Wall Fans/Exhaust Fans	CROMPTON/ALMONARD/BAJAJ
17	SFU	LEGRAND/SIEMEN/L&T
18	Changeover Switch	L&T/SOCOMECHPL/C&S

19	CFL Lamps/ 28W Tube Fittings	PHILIPS/WIPRO/GE/HAVELLS
20	Telephone Cables	DELTON/FINOLEX/SARK

**Important:** Pleast tick ( / ) the make of materials considered in the tender.

RASMEC SHORNUR						
ELECTRICAL WORKS : BOQ						
PART A					Amount Quoted	
SL NO.	DESCRIPTION OF WORK	QTY	UNIT	RATE	AMT.	
1	<b>MSB</b> : Fabrication, Supply, Installation, testing and commissioning of wall mounting type dust and vermin proof cubicle type switch board made out of 16 SWG CRCA sheet with powder coated painting(siemens grey) and consisting of					
	<b>125A, 4 Pole Automatic Transfer Switch (ATS) without C-30 relay and with auxilary contactor and contacts and its wiring- 1 no (Incomer) (Model No.ATyS-3s ATS01254POX3S)</b>					
	63A, 16 kA TP MCCB as outgoings -2 Nos. ( Main VDB & AC VDB)					
	25 x 6 mm Copper busbar for 3 phases and neutral.					
	3 nos. LED indicators for RYB indication : 2 sets ( each for KSEB & DG Set supply indication)					
	Multifunction LCD Display for Voltage, Current and Frequency for 3 phase- 1 No.					
	2A SP MCB - 6 Nos. for control supply.					
	Single phase preventer.					
	Digital voltage Stabiliser for ATS Motor Supply ( type conforming to ATS manufacturer recommendations)					
	Auxiliary contactor with NO/NC contacts and related wiring.					
	Complete with all interconnections.	1	Set			
2	<b>SURGE PROTECTOR</b> : Supply and installation of Class 1 + 2 Surge protection Device of <b>OBO BETTERMAN</b> make <b>V25-B+C/3+NPE</b> with manufacturer's own enclosure as per its schematic lay out to be installed between KSEB Incoming Power Supply in MSB and KSEB earthpits.	1	Set			
3	<b>MAIN PANEL (VDB)</b> : Supply, Installation, testing and commissioning of Double door 8 Way <b>TPN MCCB Vertical DB</b> consisting of the following.	1	Set			
	63A, 25 kA TP MCCB as Incomer - 1 No.					
	40A, 3 Pole MCB (C-Series) - 2 Nos.(To 3 Ph UPS if any)					
	32/40A, 3 Pole MCB (C-Series) - 2 Nos.(To LDB & spare)					
	10/16/20A/32A, SP MCB (C-Series) - 10 Nos.(To Single Ph. AC Units -					

	Server, Power plugs, Board lights etc & spare)				
	Dummy - 2 Nos.				
	100A Copper busbar for 3 phases				
	Complete with all interconnections.				
4	<b>AC VDB:</b> Supply, Installation, testing and commissioning of Double door 4 way <b>VERTICAL TPN MCB DB</b> consisting of the following.				
	63A 4 Pole MCB and separate 63A 100 mA ELCB as Incomer - 1 No.				
	32/40A TP MCB as out goings - 2 Nos.				
	32A SP MCB as outgoing - 6 Nos.				
	Dummy – Nil.				
	Complete with all inter connections.	1.00	Set		
5	<b>LDB/ ATM DB:</b> Supply, Installation, testing and commissioning of Double door 6 way TPN MCB DB consisting of the following.				
	32/40A, 30mA ELCB + MCB as Incomer - 1 No.				
	6/10A 'B' Series MCB as out going - 18 Nos.				
	Complete with all inter connections.	1.00	Set		
6	<b>UPS OUTPUT DB:</b> Supply and installation of 32 A DP MCB in suitable metallic enclosure for UPS Output	2	Nos.		
7	<b>COMPUTER DB</b> Supply, erection, testing and commissioning of wall mounted type double door dust and vermin proof 8 way SPN MCB DB fixed on wall comprising the following:				
	40A, 2 pole MCB isolator - 1 No.				
	6A / 16A MCB - 6 Nos.				
	SPN MCB DB - 8 way	2	Set		
8	<b>CABLE LAYING AND TERMINATIONS</b> Supply, laying and dressing of the following size of 1.1 KV grade PVC insulated armoured cable with aluminium conductor concealed or clamped on wall / ceiling / trench / cable traylamps if necessary.				
	i) 3.5 x 50 Sq.mm AYFY (Main cable and cable From DG to MSB)	85	Mtr.		
	ii) 4 x 25 Sq.mm AYFY (From MSB to Main VDB & AC VDB)	40	Mtr.		
	iii) 4x10 Sq.mm AYFY ( From MSB to LDB )	80	Mtr.		
	iv) 6x1.5 Sq.mm armoured Copper control cable (between DG & ATS)	60	Mtr.		
9	End termination of the following size of cables using flange type cable glands and heavy duty tinned aluminium crimping type cable sockets including gland earthing.				
	i) 3.5x 50 Sq.mm AYFY	4	Nos.		
	ii) 3.5x25 Sqmm AYFY	4	Nos.		
	iii) 4x10 Sq.mm AYFY	2	Nos.		
	iv) 6x1.5 Sq.mm armoured Copper control cable	2	No.		
10	Supply and providing ISI pipe earthing as per IS 3043 with 2.5m long 40mm dia B class G.I. pipe providing GI clamp at the top of the GI pipe test joint, filling around the GI pipe at the radius of 15cm with homogeneous mixture of charcoal, commol salt and river sand up to height of 2.5m from the botton and the rest of the portion with excavated soil, providing brick work masonries, plastering, fixing cast iron cover of 30x30cm size etc. complete.	7	No.		

11	<b>EARTH CONDUCTORS</b> Supply and laying of the following size of bare copper conductor along with above cables, for interconnections between panels, DBs, change over switches etc.and also for interconnections between earth pits.				
	i) No.10 SWG	180	Mtr.		
	ii) No.4 SWG for Dg Set	50	Mtr.		
12	Supply and laying of 2 X No. 10 SWG copper conductor through 20mm PVC conduit for UPS earthing.	50	Mtr.		
13	Supply and laying of 1 run No. 10 SWG copper conductor through 20mm PVC conduit for <b>Datacraft RACK's lightning protection.</b>	30	Mtr.		
	<b><u>WIRING FOR LIGHT, FAN, PLUG, SOCKETS ETC</u></b>				
14	<b>POINT WIRING</b> Supply and wiring for light/fan/exhaust fan/calling bell/mirror lamp/bulk head light/wall fans etc.with 3 plate ceiling rose and by using <b>3 X 1.0 Sqmm</b> . PVC insulated copper conductor wire in 20mm dia 1.5mm thick rigid PVC conduit, controlled by 5 Amps modular type switch with provisions for modular type ceiling fan regulator on separately fabricated MS Box. The M. S. box should be earthed properly. One way point				
	As above - 1 point controlled by 1 switch	75	No		
	As above - 2 points controlled by 1 switch	3	Nos		
	As above - 3 points controlled by 1 switch	3	Nos		
15	Supply and fixing of Modular type 6A 3 pin plug points controlled 5A modular switch mounted on suitable box. (on common switch board)	10	No.		
16	Same as above but for modular type 6A 3 pin plug points with 5A modular type switch in separate location.	6	No.		
17	Supply and fixing of modular type 15A plug socket with 15A modular type switch mounted on suitable Box.	4	No.		
18	Same as above but for 2 Nos. modular type 15 A 3 pin plug points with 2 nos. 15A modular type switch in separate location.(for datacraft rack / I/O Rack)	2	Nos.		
19	Supply and installation of combined 6A, 3pin modular plug socket with 6A modular switch & 16A combined 3 module modular plug socket with 16A modular switch in single box.(for KSEB supply at counters / Manager cabin)	21	Nos.		
20	Supply and providing 16 A plug top and 1.5m long 3 core 2.5Sqmm flexible copper cable for taking incoming supply from 16A socket. Cable should be given through a flexible hose & hook should be giben for hanging the flexible hose (For UPS supply to back office managers, manager & KSEB supply to strong room, line printer and kitchen)	2	No.		
21	<b>CIRCUIT WIRING</b> Supply and wiring wall / floor etc. / recessed / surface as per colour code with <b>3 runs</b> of 1.1KV grade <b>1.5 Sqmm</b> PVC insulated flexible copper wire for phase neutral and earth conductor with standard colour coding, through ISI marked 20mm dia rigid PVC conduit with all accessories. The rate includes the cost of complete wiring from switch box to switch box.	410	Mtr.		
22	Same as above but with <b>3 x 2.5</b> Sq.mm PVC Insulated copper wire.(for lighting main circuit, 15A plug points & UPS point wiring & 1T AC)	510	Mtr.		
23	Same as above but with <b>3 x 4</b> Sq.mm PVC Insulated copper wire. (for AC, UPS O/P COS to Computer DB and for Name Board)	50	Mtr.		
24	Same as above but with <b>3 x 6</b> Sq.mm PVC Insulated copper wire. (for	40	Mtr.		

	AC, UPS O/P COS to Computer DB and for Name Board)				
25	Supply and installation of 25/32A combined Power plug & 20/32A SP MCB in suitable PVC/metallic box. (North West or equivalent make) for connecting AC stabiliser near VDB/ UPS in pit sockets.	3	No.		
26	Supply and Installation of 25A Modular type 3 pin plug socket with suitable metallic box for air conditioners.	3	No.		
27	Supply and Installation of 32A Modular type DP switch (2module) with indicator mounted on suitable metallic/PVC box for the local control of the air conditioners.	3	No.		
28	Supply and Installation of 20/32A 4 Pole MCB in suitable metallic enclosure for the local control of 3 Phase Acs.	2	Nos.		
29	Supply and installation of 20/32A TP isolator near out door unit of duct AC units with suitable weather proof Syntex enclosure.	2	Nos		
30	<b>UPS POWER STATIONS</b> Supply, install, test and commissioning of computer power stations with 4 Nos. 5A modular type sockets and 4 nos. 5 A modular type single pole switch with indicator mounted on M.S.Box. The boxes should be fixed on wall / partitions (wooden) consealed or open as required at site. Maximum 3 Sets per circuit.	32	No.		
31	Supply, install, test and commissioning of 16A modular type master switch with suitable PVC box for the main control of UPS stations(Manager Cabin & back office counters).	25	No.		
32	Marking of Panels, DBs, its switch and fuse ratings, cable size, location etc (Neat identification from top to extreme load end of both light and power distribution including KSEB / UPS plug sockets and generator switch boards) using white / black paint and stencil. (free hand writing not allowed). Good quality stickers may also be used.	1	LS		
33	Charges for preparation of single line diagram of the whole electrical installation using AutoCAD, lamination and displaying it inside the UPS room.	1	LS		
34	Charges for marking the telephone sockets and its correspondonding cable in the KRONE Box and preparation of single line diagram / layout of the whole telephone wiring showing location and numbering marked in the plan using AutoCAD, lamination and displaying it inside the Server Room/Manager Cabin.	1	LS		
35	Service charge for liaison work with KSEB authorities on behalf of bank for getting power allocation and final sanction for additional load, getting order for statutory payments, shifting/replacement of suitable energy meter if necessary, submission of completion report, obtaining final load sanction from KSEB.	1	LS		
36	Service charge for preparation of schem, getting approval & energisation sanction for DG set from Electrical Inspectorate and allied works	1	LS		
	<b>LIGHT FIXTURES &amp; FANS</b>				
a	Supply and Installation of Philips Green square LED Luminare Cat. No.RC380B LED 28S-6500 L60W60 PSI OD or equivalent (including fixing frame if any required) or equivalent. ( Bank has the discretion to supply the light fittings if necessary)	22	No.		
b	Supply and installation of 15W Philips Tornado CFL with suitable batten holder (Toilets & wash area)	4	Nos		
c	Supply & installation of 1 X18 Watts <b>Philips Green LED I 200 DN 193B LED light fitting with lamps and white reflector on false ceiling ( including UPS Lights)</b>	23	Nos.		
d	Supply and fixing of 1 X 28W T5 batten light fitting with lamp on wall /ceiling. <b>Philips Aspire(T5)</b>	20	Nos		

e	Supply and installation of LED strip along with drive (Blue / White)	40	RM		
f	Supply & installation of calling bell	1	Nos		
g	Supply and installation of 9" size medium duty exhaust fan. (Toilets) Almonard make	3	Nos.		
h	Supply and installation of 12" size medium duty exhaust fan. (UPS Room) Almonard make	1	No.		
i	Supply and Installation of 400 mm sweep wall fan. Crompton Greaves / Usha	5	No.		
j	Supply amd installation of 1200mm sweep ceiling fan. (Crompton Greaves High Speed double ball bearing type)	7	No.		
k	Supply and Installation of step type modular electronic regulator.	7	No.		
l	Supply and providing fan hook on ceiling.	7	No.		
m	Supply and providing fan rod with painting (upto 1m length) (other than that supplied with fan and if required)	7	Nos.		
n	Supply and providing <b>tinned</b> copper earth bench using 25 x 3 mm copper strip (25 Cm in length)	4	Nos.		
o	Supply and providing of 6A, 3 pin modular socket on suitable metal box for wall fan.	5	Nos.		
p	Supply and installation of Protonics make Cut off timer for External lights (to be installed near VDB).	1	No.		
	<b>PART - B</b>				
	<b>TELEPHONE</b>				
1	Supply and wiring using 2 pair telephone cable 20mm PVC conduit from the EPABX to the individual points. One separate cable for each point. Number of cables in one conduit limited to 5.				
a	2 pair telephone cabling	380	m		
b	10 pair telephone cabling (1 run for EPABX)	40	m		
	Supply and fixing of RJ 11 type modular telephone socket on suitable PVC / metal boxes.				
2	Telephone socket - single (modular type)	25	No.		
a	Telephone socket - double (modular type)	2	No.		
b	Supply and installation of KRONE connector telephone junction box of 10 pair.	2	No.		
3					
	<b>PART - C</b>				
	<b>MUSIC SYSTEM</b>				
1	Supply and wiring as per colour code with 2.50Sqmm PVC insulated stranded copper wire 2 runs through ISI grade 20mm conduit for speakers.	250	m		
2	Supply and providing 9W recessed type speakers on ceiling <b>CS 663 T Ahuja</b> make speaker.	10	No.		
3	Supply and installation of Ahuja make 28W Amplifier with USB port. Model: <b>Ahuja DPA 370</b>	1	No.		
	<b>Total</b>				
	GST				
	Grand Total				
	Total in words				