

GOVERNMENT OF BIHAR
DEPARTMENT OF SCIENCE & TECHNOLOGY
BIHAR COUNCIL ON SCIENCE & TECHNOLOGY
INDIRA GANDHI SCIENCE COMPLEX - PLANETARIUM
PATNA – 800 001

TENDER NOTICE

For Supply & Installation of 60KVA online UPS at Indira Gandhi Science Complex, Patna, Bihar

Sealed tenders are invited for Supply & Installation of 60KVA online UPS at Indira Gandhi Science Complex- Planetarium, Patna, Bihar. Detail descriptions of the item and instructions for submitting your offer can be procured from the office of The Project Director, BCST, Bailey Road, Patna, on cost of Rs.1,000.00 non refundable or can be downloaded from the website of the department : [http://dst.bih.nic.in /www.bcst.org.in](http://dst.bih.nic.in/www.bcst.org.in).

In case the tenderer is using downloaded copy of the tender, the bid must accompanied by tender fee of Rs.1,000.00 (Rupees One Thousand only) in the form of Demand Draft/Banker's Cheque, drawn on a Nationalized bank in favour of "I.G.S.C. Planetarium" payable at Patna.

Interested Bidders may submit their sealed offers to The Project Director, BCST, Patna up to 03:30 PM on 20-09-2017.

The Project Director, BCST, Patna reserves the right to accept or reject any or all proposals without incurring any obligation to inform the affected bidders of the grounds.


11/9/17
Project Director

Bihar Council On Science & Technology
Patna

बिहार सरकार विज्ञान एवं प्रावैधिकी विभाग
इंदिरा गॉधी विज्ञान परिसर-तारामंडल
बेलीरोड, पटना-800001
अल्पकालीन निविदा आमंत्रण सूचना

विषय:- इंदिरा गॉधी विज्ञान परिसर-तारामंडल, पटना के लिए 60 के0वी0ए0 ऑनलाईन यू0पी0एस0 आपूर्ति करने के संबंध में।

इंदिरा गॉधी विज्ञान परिसर-तारामंडल में शो संचालन हेतु अबाधय रूप से विद्युत आपूर्ति के लिए 60 के0वी0ए0 का S M F बैट्री के साथ निम्न गुणवत्ता वाले आनलाईन यू0पी0एस0 प्रतिष्ठित संस्थानों से आपूर्ति हेतु निविदा आमंत्रित किया जाता है।

Technical Specification of 60 KVA On-line UPS System

SL.NO	DESCRIPTION	SPECIFICATION
01.	UPS capacity	60 KVA
1.1	Backup time	One hour
1.2	Technology	IGBT on the input and output with Digital Signal Processor controlled Microprocessor based for the following
		a. Rectifier/Charger
		b. Battery management.
		c. Inverter
		d. Static Switch
1.3	UPS type and configuration	True On-Line, Double conversion With IGBT design at Input & output side UPS should have isolation Transformer Either built-in or external in a cubicle.
1.4	Rated output	60KVA/ 48 KW
1.5	Power factor at full load	>0.99
1.6	Input factor at 50% load	>0.98
1.7	Input current THDi at full load	</=4%
1.8	Input current THDi at 50% load	</=6%
1.9	Input	
1.10	Voltage	390/400/415 VAC 3 Phase N
1.11	Voltage tolerance	± 20%
1.12	Frequency	50/60 Hz
1.13	Frequency tolerance	± 10%
1.14	Input Current at full load	76A per phase at 400V nominal.
1.15	Input Power Factor	>0.85
1.16	Back-feed protection	Available.
1.17	Rectifier/Charger	
1.18	Type of rectifier used	IGBT based DSP controlled Rectifier
1.19	Duration in which totally	8-10hrs

		discharged batteries are to be recharged	
1.20		DC Current	According to UPS Vendor design.
1.21		Nominal Dc Voltage	
		(i) Minimum DC Voltage.	1.75 per cell
		(ii) Maximum DC Voltage	2.25 per cell
1.22		Ripple voltage at full load	< 1%
1.23		Efficiency of rectifier	>/=98%
1.24		Battery charger features	
		(i) Type of charging circuit.	Constant Voltage Constant Current.
		(ii) Battery status monitoring facility	LCD display at front panel.
		(iii) Battery protection circuits.	Battery MCCB provided.
1.25		Inverter	
1.26		Technology of inversion	IGBT based PWM design with DSP controlled.
1.27		Output	
1.28		Voltage	400 VAC, 3phase, 4 wire Settable.
1.29		Output voltage regulation	
		(i) Balanced load	±1% (Static)
		(ii) Unbalanced load	±3% for 4wire system (Dynamic)
1.30		Output Frequency	50/60 HZ selectable
1.31		Output Frequency range	± 0.5Hz
1.32		Output Frequency synchronising range With Bypass	±2HZ
1.33		Transient voltage regulation for	±5%
1.34		0 to 100% and vice versa	
1.35		Recovery time	<20m.sec
1.36		Wave form	Sinusoidal
1.37		Crest Factor	3:1
1.38		Harmonics:	
		(i) Total harmonic distortion at 100% linear load	<1%
		(ii) Total harmonic distortion at 100% Non linear load	<3%
1.39		Phase displacement:	
		(i) Balanced load	120+- 1 deg. Electrical
		(ii) 100% Unbalanced load	120+- 2 deg. Electrical
1.40		Overload	150% for 1min 125% for 10mins 110% for 60 mins
		Power loss at 100% load	3.6 KW

	Neutral current & conductor size	1.5 times of Phase current.
1.41	Manual Bypass:	
	(i) Optional/Standard	Standard.
	(ii) Transfer time	0 m sec.
1.42	Efficiency	Without transformer loss.
	(i) At Full load	>/=92.5%
	(ii) At 75% load	>/=93.0%
	(iii) At 50% load	>/=93.0%
	(iv) At 25% load	>/=90.0%
1.43	Environmental conditions	
	(i) Temperature (design ambient)	0-40 deg C
	(ii) Relative humidity	95% RH
	(iii) Acoustic Noise measured at 1	<60Db
1.44	Mt distance	
1.45	UPS Status display- LCD Screen	Available.
1.46	Event logging	Available.
1.47	Network Communication through SNMP Card Required	SNMP Card Required
1.48	Protection	
1.49	Overload	Available.
1.50	Short circuit	Available.
1.51	Input low voltage	Available.
1.52	Output over voltage	Available.
1.53	Battery over charging	Available.
1.54	Battery over discharging	Available.
1.55	Physical	
1.56	Construction	Compact and modular design
1.57	Ventilation	Forced Air cooling
1.58	Reliability	>99.5%
1.59	MTBF	2,50,000 hrs
1.60	Warranty	2 Years.
02	BATTERY	
1.1	Battery VAH	144000
1.2	Battery make	(i) Exide
		(ii) Amoron
		(iii) Tata Green
1.3	Battery Type	Maintenance Free
1.4	Battery Unit	40
1.5	Charge Voltage	540 V DC
1.6	Deep Discharge Voltage	420 V DC
1.7	Battery Charge Time	8 hrs to 90% capacity after discharge.
1.8	Warranty	2 Years.

III ELIGIBILITY CRITERIA:

- a) Turnover criteria
- b) Turnover in each of the past three years audited.

Details of present/Past turnover of our firm is given as below

S.NO.	Turnover (In Lac Rs.)	Year
1.		2014-2015
2.		2015-2016
3.		2016-2017

Copy of audited financial statement is attached is TURNOVER-DOC

b) Order Value Criteria – Experience of similar supplies of order Value (In any of the year of the last three financial years) of:

Details of the orders given to our firm is given below:

S.N.	Date of order	No. Of Orders	Name of ordering authority	Value of the Order in INR
1.				
2.				
3.				

Copy of original orders is attached as ORDER-DOC(as the case may be)

C) Experience Criteria for presence in Govt./PUS/BANK Segment Experience of handling Govt./PSU/BANK orders of the value of at least five lakhs in any state with multi location supply in last three years. The details are given below:-

Details of the orders given to our firm is given below:-

S.No.	Date of order	No of orders	Name of ordering authority (Govt./PSU/BANK)	Value of the order in INR
1.				
2.				
3.				

Copy of original orders is attached as EXP-DOC

(d) PAN (Bidder must quote their PAN) The details of bidders PAN is as follows:	
Name of the bidder	PAN allotted by Income Tax Department

Copy of PAN is attached as PAN-DOC

(e) GST Registration No- (Bidder must quote their GST Registration Number of Manufacturer or bidder) The details are given below:

Name of the bidder	GST No. Allotted by Service Tax Department

Copy of GST registration No. Is attached as GST-DOC

(f) Signed copy of entire Original Tender Document and Corrigendum and with one page under taking by the firm submitted format is annexure after this tender form)
Copy of entire original tender document and corrigendum and with one page undertaking by the firm is attached as Signature-DOC
(g) Quality Certification- The bidder /OEM should have ISO 9001:2000, ISO1401:2015 Certification.
Copy of original ISO 9001:2000, ISO 1401:2015 IS ATTACHED AS QC-DOC

THE UPS OEM'S SHOULD HAVE LOCAL OFFICE AND THEIR OWN SERVICE CENTER AT PATNA.

CHECKLIST

XIII. CHECK LIST – Evaluation will be done as per the information provided in the checklist. Hence unattached checklist may be rejected.

SL. NO.	Checklist Item Description	Document Name	Document Attached (YES/NO)
1.	Submission of Tender document Fee	TDFEE-DOC	
2.	Submission of EMD (if not attached then proof of exemption)	EMD-DOC	
3.	Turnover Eligibility Criteria (5 crore)	TURNOVER – DOC	
4.	Experience of handling Govt./PSU/Bank orders	EXP-DOC	
5.	Details of Bidder PAN	PAN-DOC	
6.	Manufacturers Regd. No allotted by Service Tax Det., copy of certificate only	SERVICE TAX REG-DOC	
7.	Signed copy of entire Original Tender Document and Corrigendum with one page undertaking by the firm submitted	SIGNEDTD-DOC	
8.	Bidder/OEM'S Quality Certificates ISO- 9001:2000, ISO-1401:2015	QC-DOC	

Note: Attachment must be attached at right places.

TECHNICAL BID

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2. TECHNICAL BID

BID LETTER

The Project Director
IGSC-Planetarium
Patna-800001.

Reference: Tender NumberDated.....

Sir,

We hereby declare:

- i. We are the authorized agents of the manufacturers/Developer of the 60 KVA online UPS.
- ii. We are equipped with adequate maintenance and service facilities within Bihar for supporting the offered items. Our maintenance and service facilities are open for inspection by representatives of Government of Bihar.

We hereby offer to supply the 60 KVA online UPS and provide the services at the prices and rates mentioned in the attached commercial bid. In the event of acceptance of our bid, we do hereby undertake:

- i. To supply the equipments and commence services as stipulated in the schedule of delivery forming a part of the attached technical bid.
- ii. We affirm that the prices quoted are inclusive of delivery, installation, and commissioning charges and all sales/service taxes. (Octroi and any local levies will be charges on actual on submission of proof of remittance.)

We enclose herewith the complete Technical Bid as required by you. This includes:

1. Bid particulars
2. This bid letter
3. Schedule of delivery
4. Warranty
5. Manufacturer's authorization form(s)

We agree to abide by our offer for a period of 180 days from the last date of submission of commercial bid prescribed by Government of Bihar and that we shall remain bound by a communication of acceptance within that time.

We have carefully read and understood the terms and conditions of the tender and the conditions of the contract applicable to the tender. We do hereby undertake to provision as per these terms and conditions.

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- ii The deviations from the requirement specifications of tendered items and schedule of requirements are only those mentioned in section
OR (Strike out whatever is not applicable)
There are no deviations from the requirement specifications of tendered items and schedule of requirements.
- iii The deviations from the terms and conditions of the tender are only those mentioned in section
OR (Strike out whatever is not applicable)

There are no deviations from the terms and conditions of the tender.
We hereby certify that the Bidder is a Directorate and the person signing the tender is the constituted attorney.
Bid Security in the form of a Bank Draft issued by (bank), valid till/...../..... (dd/mm/yyyy), for an amount of Rs.50,000/- (Rupees Fifty thousand) is enclosed in the cover containing pre-qualifying requirements.

We do hereby undertake that, this bid, together with acceptance thereof and notification of award of contract shall constitute a binding contract between us.

Signature and Seal of Bidder

FINANCIAL BID

3. FINANCIAL BID

Indira Gandhi Science Complex-Planetarium, Patna

FINANCIAL BID

Name of Bidder.....

Address for.....

Correspondence.....

S.NO.	Item Name	Item Name FOR Destination Unit Price (Incl. Of Excise Duty & Entry Tax etc.	GST	Total Price	Unit	AMC Rate Per Year after warranty period
		A (Rs)	B (Rs)	C = A+B (Rs)		
1.						
2.						
3.						

निविदा की शर्तः-

निविदा हेतु लिफाफा प्रणाली (तकनीकी निविदा एवं वित्तिय निविदा अलग-अलग लिफाफे में डालकर दोनों को एक लिफाफा में बन्द कर) में निविदा समर्पित किया जाता है।

60 के0वी0ए0 ऑनलाईन यू0पी0एस0 क्रय हेतु तकनीकी/वित्तिय निविदा की शर्तः-

1. अधिकृत एजेन्सी को GST निबंधित होना चाहिए।
2. निविदा से संबंधित टेकनिकल बीड एवं वित्तिय बीड को अलग-अलग लिफाफा में बन्द कर दोनो को एक बड़ा लिफाफा में डालकर उसे सील कर समर्पित करें।
3. निविदा के साथ आपूर्ति अनुभव के रूप में अन्य प्रतिष्ठीत संस्थानों में यू0पी0एस0 आपूर्ति से संबंधित आपूर्ति आदेश की छायाप्रति संलग्न करें।
4. तकनीकी बीड के साथ अरनेस्ट मनी के रूप में रू0- 50,000.00(पचास हजार) का बैंक ड्राफ्ट परियोजना निदेशक, तारामंडल के नाम पटना पर भुगतेय संलग्न करें।
5. निविदा में यू0पी0एस0 का दर सभी कर सहित तारामंडल में अधिष्ठापन एवं उसे चालू करने में आने वाले कुल खर्च सहित अंकित करें।
6. डी0जी0एस0 एण्ड डी0 दर पर आपूर्ति करने वाले संस्थान को प्राथमिकता दी जा सकती है।
7. निविदाकर्ता चाहें तो निविदा के पूर्व तारामंडल साईट का निरीक्षण कर सकते हैं।
8. किसी भी निविदा या सम्पूर्ण निविदा को बिना कोई कारण बताये रद्द करने का परियोजना निदेशक को पूर्ण अधिकार है। इस संबंध में परियोजना निदेशक का निर्णय अंतिम होगा।
9. किसी भी तरह का विवाद का निपटारा का क्षेत्र पटना होगा।
10. सम्पूर्ण निविदा फार्म में भरकर आवश्यक अभिलेखों के साथ मुहरबन्द लिफाफे में अधोहस्ताक्षरी के कार्यालय में कार्य दिवस के अन्दर दिनांक- 20.09.2017 के अपराहन 3:30 बजे तक निबंधित डाक/कोरियर सेवा/ हाथो हाथ द्वारा प्राप्त किया जायेगा।
11. निर्धारित अंतिम तिथि एवं समय के बाद किसी भी स्थिति में निविदा कार्यालय द्वारा स्वीकार नहीं किया जायेगा।
12. निविदा अस्वीकृत होने की स्थिति में अरनेस्ट मनी बिना सूद के वापस कर दिया जायेगा।
13. निविदा दाता द्वारा रू0-1000/- नगद जमा कर तारामंडल पटना के कार्यालय से कार्यालय अवधि में निविदा फार्म प्राप्त किया जा सकता है।

TENDER DOCUMENT

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1. GENERAL BID
TENDER FORM

INDIRA GANDHI SCIENCE COMPLEX - PLANETARIUM, PATNA

TENDER FORM

DETAILS OF THE FIRM PARTICIPATING IN THE TENDER

1.	Name of the Bidder				
2.	Name and designation of Authorized Signatory				
3.	Registered Office Address				
4.	Factory/Godown Address				
5.	Year of Establishment				
6.	Type of firm	Public Ltd.	Private Ltd.	Partnership	Proprietary
	Put enter "Yes"				
7.	Telephone Number(s)/Mobile				
8.	Website				
9.	Fax No.				
10.	Email Address				
I. The Tender fee amounting to Rs.1,000/- (Rupees one thousand only) has been deposited					
DD No./Bank Name					
Dated					

Copy of this is attached as TDREE - DOC

II. Following documents are attached towards the proof of earnest money deposited.

Sl. No.	Instrument of Earnest Money Deposited (EMD) DD	Amount	Number	Starting Date for EMD	Expiry date For EMD	If exempted Mark(Yes)

Note 1: Earnest Money Deposit (EMD) of **Rs. 50,000/-** (Rupees Fifty thousand) as per details given below, by Demand Draft of any nationalized bank drawn in favors of **Project Director, IGSC-Planetarium** payable at **Patna**.

(Copy of this is attached as EMD-DOC)

If exempted, the proof of exemption is to be attached in the same attachment.