Department of Electrical Engineering Indian Institute of Technology Hauz Khas, New Delhi-110 016

NOTICE INVITING QUOTATIONS

Dated: 08/03/2017

Subject: 2.2 kW Synchronous Reluctance Motor and Drive

Invitation for Tender Offers

Indian Institute of Technology Delhi invites sealed tender offers in two bid format (Technical bid and Commercial bid) from eligible and experienced OEM (Original Equipment Manufacturer) OR OEM Authorized Dealer for **supply, installation & integration of2.2 kW Synchronous Reluctance Motor and Drive** with at least three year on site comprehensive warranty from the date of receipt of the material as per terms & conditions specified in the tender document.

The quotation should reach to Prof. Bhim Singh,Room No. II-118, Department of Electrical Engineering,IIT Delhi, HauzKhas, New Delhi – 110016 latest by 5:00 P.M. on 23/03/2017.

Mot	Motor Specifications:-				
1.	I/P AC Voltage Range	380-415 Volt, 50 Hz			
2.	Power	2.2 kW			
3.	Speed	1500 RPM			
4.	Efficiency	> 80 % at full load			
5.	Torque	10-15 Nm			
6.	Protection	IP55 or better			
7.	Type of cooling	IC411			
Driv	Drive Specifications				
1.	Voltage Range	400-500 V AC +/-10%, 3-phase			
2.	Frequency	50 Hz +/- 5%			
3.	Power factor	0.92-0.95 or better			
4.	Efficiency	>95%			
5.	Output frequency	0-500 Hz			
6.	Switching frequency	3-10 kHz			
7.	Protection	IP20 or better			
8.	Ambient temperature	15 to +55 °C			
9.	Safety and Protections	Thermal motor protection, External fault,			

TECHNICAL SPECIFICATION:

Terms & Conditions

Sl.No.	Specification
1.	Due date : The tender has to be submitted before the due date. The offers
	received after the due date and time will not be considered.
2.	Preparation of Bids : The offer/bid should be submitted in two bid systems (i.e.)
2.	Technical bid and financial bid. The technical bid should consist of all technical details
	along with commercial terms and conditions. Financial bid should indicate item wise price
	for the items mentioned in the technical bid. The Technical bid and the financial bid
	should be put in separate covers and sealed. Both the sealed covers should be put into a
	bigger cover and to be sealed. The tender number and details should be superscripted on
	the left side of the outer cover. The Quotations should be valid for 120 days from the due
	date. The Quotations duly sealed and super scribed on the envelope with the reference No.
	and due date, should be addressed to " Prof. Bhim Singh, Room No. II-118, Department
	of Electrical Engineering, Indian Institute of Technology, HauzKhas, New Delhi -
	110016 " so as to reach on or before the due date.
3.	Delivery of the tender : The tender shall be sent to the above mentioned addressee either
5.	by post or by courier so as to reach our office before the due date specified in our
	Schedule. The offer/bid can also be dropped in the tender box on or before the due date
	specified in the schedule. The tender box is kept in " Department of Electrical
	Engineering."
4.	Opening of the tender : The offer/bid will be opened by a committee duly constituted for
т.	this purpose. The technical bid will be opened first and it will be examined by a technical
	committee which will decide the suitability as per our specification and requirement. The
	financial offer/bid will be opened only for the offer/bid which technically meets all our
	requirements as per the specification. The bidders if interested may participate on the
	tender opening Date and Time. The bidder should produce authorization letter from their
	company to participate in the tender opening. Only one representative will be allowed to
	participate in the tender opening. Only one representative will be anowed to
5.	Acceptance/ Rejection of bids: The Committee reserves the right to reject any or all
0.	offers without assigning any reason.
6.	Pre-qualification criteria:
	(i) Bidders should be the manufacturer / authorized dealer. Letter of Authorization from
	original equipment manufacturer (OEM) on the same and specific to the tender should be
	enclosed.
	(ii) An undertaking from the OEM is required stating that they would facilitate the bidder
	on a regular basis with technology/product updates and extend support for the warranty
	as well.
	(iii) OEM should be internationally reputed Branded Company.
	(iv) Non-compliance of tender terms, non-submission of required documents, lack of
	clarity of the specifications, contradiction between bidder specification and supporting
	documents etc. may lead to rejection of the bid.
7.	Risk Purchase Clause: In event of failure of supply of the item/equipment within the
	stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment
	from the other source on the total risk of the supplier under risk purchase clause.
8.	Packing Instructions: Each package will be marked on three sides with proper
	paint/indelible ink, the following:
	i. Item Nomenclature
	ii. Order/Contract No.
	iii. Country of Origin of Goods
	iv. Supplier's Name and Address
	v. Consignee details

	vi. Packing list reference number
9.	Delivery and Documents:
	Delivery of the goods should be made within a maximum of 10 weeks from the date of placement of purchase order and the opening of LC. Within 24 hours of shipment, the supplier shall notify the purchaser by cable/telex/fax/e mail the full details of the shipment including contract number, railway receipt number/ AAP etc. and date, description of goods, quantity, name of the consignee, invoice etc. The supplier shall mail the following
	documents to the purchaser:
	1. 4 Copies of the Supplier invoice showing contract number, goods' description, quantity
	 4 Copies of the supplier invoice showing contract number, goods description, quantity 2. unit price, total amount;
	 a. Acknowledgment of receipt of goods from the consignee(s) by the transporter;
	 Acknowledgment of receipt of goods from the consignee(s) by the transporter, Proprietary Certificate if applicable;
	 5. Manufacturer's/Supplier's warranty certificate;
	 6. Inspection Certificate issued by the nominated inspection agency, if any
	7. Supplier's factory inspection report; and
	 8. Certificate of Origin (if possible by the beneficiary);
	9. Two copies of the packing list identifying the contents of each package.
	10. The above documents should be received by the Purchaser before arrival of the Goods
	(except where the Goods have been delivered directly to the Consignee with all documents) and, if not received, the Supplier will be responsible for any consequent expenses.
10	Delayed delivery: If the delivery is not made within the due date for any reason, the
10.	Committee will have the right to impose penalty 1% per week and the maximum deduction is 10% of the contract value / price.
11.	packing and delivery charges. The offer/bid should be exclusive of taxes and duties, which will be paid by the purchaser as applicable. However the percentage of taxes & duties shall be clearly indicated.
	The price should be quoted without custom duty and excise duty, since IIT Delhi is exempted from payment of Excise Duty and is eligible for concessional rate of custom duty. Necessary certificate will be issued on demand.
	In case of import supply the price should be quoted on FOB Basisonly.Under special circumstances (eg. perishable chemicals), when the item is imported on CIF, please indicate CIF charges separately uptoIIT Delhi indicating the mode of shipment. IIT Delhi will make necessary arrangements for the clearance of imported goods at the
	Airport/Seaport. Hence the price should not include the above charges.

	a) Fo	r indigenous items	rates sh	ould	be as per foll	owing for	mat-				
	SI. I No.	Descriptions of Item & Specification		y. in nits	Units Price in Rs.	Excise Do %	aty CS	T/VAT %	Octroi %	Total P in Re	
	b) Fo	or Import items rate	es should	d be a	s per followi	ng format	-				
	SI. Curr No.	rency Description of Item & Specification	Qty. in Units	Unit Price (a)	Agency Commission (b)	Discount (c)	Ex- works Price (d) = (a+b- c)	Packing +Handing+ Doc+ Inland Freight (e)	FOB Price (f=d+e)	Insurance+ Freight (g)	CIF Price (h)= (f+g)
12.	and Suppli <i>Purchaser</i>	or the purpose ier. r: Prof. Bhim S Room No. I Deptt. of El Indian Instit HauzKhas, I (To be filled in	Singh, I-118, ectrica ute of New D	al En Tecl Delhi	gineering, mology - 110016.		shall	be the ac	ldress o	of the Pu	rchase
13.	supply, in 1. Quanti 2. Quanti 3. Quanti 4. Quanti 5. Quanti	of Supply: W writing, to the ity offered for i ity accepted/rej ity dispatched/c ity where incid ity where recti	Purchanspect nspected ected leliver ental s ficatio	aser a tion by in ced to ervio	as under: and date; hspecting a consigne ces have b pair/replac	agency a es and c een satis	and da late; sfacto	te; rily comp	oleted w	vith date;	
14.	 communication from consignee/Purchaser with date; Date of completion of entire Contract including incidental services, if any; and Date of receipt of entire payments under the Contract (In case of stage-wise inspection, details required may also be specified). Inspection and Tests: Inspection and tests prior to shipment of Goods and at final acceptance are as follows: After the goods are manufactured and assembled, inspection and testing of the goods 										
	shall b whethe purcha effect a at the s where supplie	the goods are not a be carried out a ser the goods and and submitted a supplier's prem- the inspection er shall inform ation of the go	t the a re in c ufactur along ises dr ises dr is re n the	supp confc rer's with uring equir purc	lier's plan prmity wit test certif the delive g such insp ed to be chaser abo	t by the h the te ficate w ry documpection a conduct out the	e supp chnica ith da ments and tes red sh site p	lier, prior al specific ta sheet The pur- sting if ne ould be preparatio	r to shi cations shall b rchaser ced is fe clearly n, if a	pment to attached e issued shall be elt. The lo indicate ny, need	to the to the to the presence to catio d. The led for

	acceptance.
	 The acceptance test will be conducted by the Purchaser, their consultant or other such person nominated by the Purchaser at its option after the equipment is installed at purchaser's site in the presence of supplier's representatives. The acceptance will involve trouble free operation and ascertaining conformity with the ordered specifications and quality. There shall not be any additional charges for carrying out acceptance test. No malfunction, partial or complete failure of any part of the equipment is expected to occur. The Supplier shall maintain necessary log in respect of the result of the test to establish to the entire satisfaction of the Purchaser, the successful completion of the test specified. In the event of the ordered item failing to pass the acceptance test, a period not
	exceeding one weeks will be given to rectify the defects and clear the acceptance test, failing which the Purchaser reserve the right to get the equipment replaced by the Supplier at no extra cost to the Purchaser.
	• Successful conduct and conclusion of the acceptance test for the installed goods and equipment shall also be the responsibility and at the cost of the Supplier.
15.	Resolution of Disputes : The dispute resolution mechanism to be applied pursuant shall be
	 as follows: In case of Dispute or difference arising between the Purchaser and a domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. The dispute shall be referred to the Director, Indian Institute of Technology (IIT) Delhi and if he is unable or unwilling to act, to the sole
	arbitration of some other person appointed by him willing to act as such Arbitrator. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to this order.In the case of a dispute between the purchaser and a Foreign Supplier, the dispute shall be settled by arbitration in accordance with provision of sub-clause (a) above. But if this is not acceptable to the supplier then the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules.
	 Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within New Delhi.
16.	
17.	
18.	Installation & Demonstration The supplier is required to done the installation and demonstration of the equipment within one month of the arrival of materials at the IITD site of installation, otherwise the penalty clause will be the same as per the supply of materials.
19.	
	• Furnishing of 01 set of detailed operations & maintenance manual.
	• Arranging the shifting/moving of the item to their location of final installation within IITD premises at the cost of Supplier through their Indian representatives.
20.	

	and/or consumption guarantees specified under the contract. If for reasons attributable to the
	Supplier, these guarantees are not attained in whole or in part, the Supplier shall at its
	discretion make such changes, modifications, and/or additions to the Goods or any part
	thereof as may be necessary in order to attain the contractual guarantees specified in the
	Contract at its own cost and expense and to carry out further performance tests. The
	warranty should be comprehensive on site.
	Note: If a different period of warranty has been specified in the 'Technical Specifications'
	then the period mentioned above shall stand modified to that extent.
	2. The Purchaser shall promptly notify the Supplier in writing of any claims arising under
	this warranty. Upon receipt of such notice, the Supplier shall immediately within in 02 days arrange to repair or replace the defective goods or parts thereof free of cost at the ultimate destination. The Supplier shall take over the replaced parts/goods at the time of their
	replacement. No claim whatsoever shall lie on the Purchaser for the replaced parts/goods
	thereafter. The period for correction of defects in the warranty period is 02 days. If the supplier having been notified fails to remedy the defects within 02 days, the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expenses and without prejudice to any other rights, which the purchaser may have against the supplier under the contract.
21.	
۷1.	the item. In case there is any deviation in the delivery schedule, liquidated damages clause
	will be enforced or penalty for the delayed supply period will be levied.
22.	Governing Language
22.	The contract shall be written in English language. English language version of the Contract
	shall govern its interpretation. All correspondence and other documents pertaining to the
22	Contract, which are exchanged by the parties, shall be written in the same language.
23.	••
	The Contract shall be interpreted in accordance with the laws of the Union of India and all
	disputes shall be subject to place of jurisdiction.
24.	Notices
	• Any notice given by one party to the other pursuant to this contract/order shall be
	sent to the other party in writing or by cable, telex, FAX or e mail and confirmed in
	writing to the other party's address.
	• A notice shall be effective when delivered or on the notice's effective date,
	whichever is later.
25.	
	Suppliers shall be entirely responsible for all taxes, duties, license fees, octroi, road permits, etc., incurred until delivery of the contracted Goods to the Purchaser. However, VAT in
	respect of the transaction between the Purchaser and the Supplier shall be payable extra, if
	so stipulated in the order.
26.	
	Rupees on receipt of the equipment and after satisfactory installation. Agency
	Commission will not be paid in foreign currency under any circumstances. The details
	should be explicitly shown in Tender even in case of Nil commission. The tenderer should
	indicate the percentage of agency commission to be paid to the Indian agent.
27.	6 6
	Ltd., C-130, First Floor, Naraina Industrial Area, Phase-I, New Delhi-110028, Ph.
	42228222, for shipment of the stores ordered for. Any change in the freight forwarder will
	be intimated in advance.
28.	
	Credit (LC) will be established in the favour of foreign Supplier. The letter of credit (LC)
1	
	will be established on the exchange rates as applicable on the date of establishment.
	 For Indigenous supplies, 100% payment shall be made by the Purchaser against delivery,

	inspection, successful installation, commissioning and acceptance of the equipment at IITD in good condition and to the entire satisfaction of the Purchaser.
	• For Imports, LC will be opened for 100% FOB/CIF value. 80% of the LC amount shall be released on presentation of complete and clear shipping documents and 20% of the LC amount shall be released after the installation and demonstration of the equipment at the INST site of installation in faultless working condition for period of 60 days from the date of the satisfactory installation.
	• Indian Agency commission (IAC), if any shall be paid after satisfactory installation & commissioning of the goods at the destination at the exchange rate prevailing on the date of negotiation of LC documents, subject to DGS&D registration for restricted items.
	• All the bank charges within India will be borne by the Institute and outside India will be borne by the Supplier.
29.	User list: Brochure detailing technical specifications and performance, list of industrial and educational establishments where the items enquired have been supplied must be provided.
30.	Manuals and Drawings
	• Before the goods and equipment are taken over by the Purchaser, the Supplier shall supply operation and maintenance manuals. These shall be in such details as will enable the Purchaser to operate, maintain, adjust and repair all parts of the works as stated in the specifications.
	• The Manuals shall be in the ruling language (English) in such form and numbers as stated in the contract.
	• Unless and otherwise agreed, the goods equipment shall not be considered to be completed for the purposes of taking over until such manuals and drawing have been supplied to the Purchaser.
31.	Application Specialist : The Tenderer should mention in the <i>Techno-Commercial bid</i> the availability and <i>names</i> of <i>Application Specialist</i> and <i>Service Engineers</i> in the nearest regional office.
32.	Site Preparation : The supplier shall inform to the Institute about the site preparation, if any, needed for the installation of equipment, immediately after the receipt of the purchase order. The supplier must provide complete details regarding space and all the other infrastructural requirements needed for the equipment, which the Institute should arrange before the arrival of the equipment to ensure its timely installation and smooth operation thereafter.
	The supplier shall visit the Institute and see the site where the equipment is to be installed and may offer his advice and render assistance to the Institute in the preparation of the site and other pre-installation requirements.
33.	Pre-Installation requirement: The bidder should mentioned pre-installation requirements for the equipment like ambient temperature, humidity, whether specification, power specifications, etc., when items are provided full performance satisfactions, should be demonstrated.
34.	
35.	Spare Parts

	The Supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:
	i. Such spare parts as the Purchaser may elect to purchase from the Supplier, providing that this election shall not relieve the Supplier of any warranty obligations under the Contract;
	and
	ii. In the event of termination of production of the spare parts:
	iii. Advance notification to the Purchaser of the pending termination, in sufficient time to permit the Purchaser to procure needed requirements; and
	iv. Following such termination, furnishing at no cost to the Purchaser, the blueprints,
	drawings and specifications of the spare parts, if requested.
	Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for
	the Goods, such as gaskets, plugs, washers, belts etc. Other spare parts and components
	shall be supplied as promptly as possible but in any case within six months of placement of order.
36.	Defective Equipment: If any of the equipment supplied by the Tenderer is found to be
	substandard, refurbished, un-merchantable or not in accordance with the
	description/specification or otherwise faulty, the committee will have the right to reject the
	equipment or its part. The prices of such equipment shall be refunded by the Tenderer with
	18% interest if such payments for such equipment have already been made. All damaged
	or unapproved goods shall be returned at suppliers cost and risk and the incidental
	expenses incurred thereon shall be recovered from the supplier. Defective part in
	equipment, if found before installation and/or during warranty period, shall be replaced within 45 days on receipt of the intimation from this office at the cost and risk of supplier
	including all other charges. In case supplier fails to replace above item as per above terms
	& conditions, IIT Delhi may consider "Banning" the supplier.
37.	Termination for Default
0,1	The Purchaser may, without prejudice to any other remedy for breach of contract, by written
	notice of default sent to the Supplier, terminate the Contract in whole or part:
	v. If the Supplier fails to deliver any or all of the Goods within the period(s)
	specified in the order, or within any extension thereof granted by the Purchaser;
	or
	vi. If the Supplier fails to perform any other obligation(s) under the Contract.
	vii. If the Supplier, in the judgment of the Purchaser has engaged in corrupt or
	fraudulent practices in competing for or in executing the Contract.
	• For the purpose of this Clause:
	i. <i>"Corrupt practice"</i> means the offering, giving, receiving or soliciting of anything
	of value to influence the action of a public official in the procurement
	process or in contract execution.ii. "Fraudulent practice" means a misrepresentation of facts in order to influence a
	procurement process or the execution of a contract to the detriment of the
	Borrower, and includes collusive practice among Bidders (prior to or after
	bid submission) designed to establish bid prices at artificial non-competitive
	levels and to deprive the Borrower of the benefits of free and open
	competition;"
	• In the event the Purchaser terminates the Contract in whole or in part, the Purchaser
	may procure, upon such terms and in such manner, as it deems appropriate, Goods or
	Services similar to those undelivered, and the Supplier shall be liable to the Purchaser
	for any excess costs for such similar Goods or Services. However, the Supplier shall
20	continue the performance of the Contract to the extent not terminated.
38.	Warranty/Guarantee: The warranty period should be clearly mentioned. The

	maintenance charges (AMC) under different schemes after the expiry of the warranty should also be mentioned. The tender must be quoted with at least one (01) year on-site comprehensive warranty/guarantee which will commence from the date of the satisfactory installation/commissioning of the equipment against the defect of any manufacturing, workmanship and poor quality of the components. After the warranty period is over, Annual Maintenance Contract (AMC)/Comprehensive				
	Maintenance Contract (CMC) up to next two years should be started. The AMC/CMC				
	charges will be included in computing the total cost of the equipment.				
39.	Downtime: During the warranty period not more than 5% downtime will be permissible. For every day exceeding permissible downtime, penalty of 1/365 of the 5% FOB value will be imposed. Downtime will be counted from the date and time of the filing of complaint with in the business hours.				
40.	Training of Personnel: The supplier shall be required to undertake to provide the technical training to the personnel involved in the use of the equipment at the Institute premises, immediately after completing the installation of the equipment for a minimum period of one week at the supplier's cost.				
41.	Conditional tenders will not be accepted.				
42.	Compliancy certificate : This certificate must be provided indicating conformity to the technical specifications.				
43.	Acknowledgement : It is hereby acknowledged that we have gone through all the conditions mentioned above and we agree to abide by them.				

ANNEXURE-I

Sl. No.	Details	Yes/ No
1.	We have gone through the terms & conditions of the tender document	
2.	Our organization or any of its subsidiaries have not been blacklisted by	
	any Govt. / Autonomous bodies / Universities / Govt. Institutes.	
3.	The quoted price is valid for 3 months from the last date of submission	
4.	Income Tax Certificate attached	
5.	VAT & TIN number copy attached	
6.	Service Tax & Sales Tax Registration Certificate attached	
7.	A detailed list showing number of items supplied by our company in	
	last six months to various Government Organizations/ Institutions/ IITs	
	/ NITs with their full address, name of the contact person, fax number,	
	mobile number, telephone Nos. and E-mail identity is attached.	

Sub. : Compliance Report against supply of

(Signature of authorized person)

Name : _____

Seal of the company

Date_____

ANNEXURE-II

DECLARATION

- 2. I, further certify, that I am the duly authorized representative of the under mentioned tenderer.
- 3. I, further certify that my company meets all the conditions of eligibility criteria laid down to take part in the tender.
- 4. I, further specifically certify, that my company has not been Black Listed/De Listed or put to any Holiday by any Institutional Agency/ Govt. Department/ Public Sector Undertaking in the last three years.

Name of Tendering Company/ Firm/ Agency (Attach certificates of registration)	
Name of proprietor/Director of Company/Firm/Agency	
Full Address of Office with Telephone No. and FAX	
E-Mail	
PAN No. (Attach attested copy)	
Service Tax & Sales Tax Registration No. (Attach attested copy)	
Contact Person Name	
Mobile Number	

(Signature of authorized person)

Name : _____

Seal of the company

Date_____