

U.P. CO-OPERATIVE SUGAR FACTORIES FEDERATION LTD.

9-A, RANA PRATAP MARG, LUCKNOW

Telephone: (0522)-2200183

Fax: (0522) 2627994 (0522)2628310

Email: upsugarfed@yahoo.co.in

Website: www.upsugarfed.org

COMPETITIVE e-bidding

FOR

Supply , Erection and Commissioning (including design, preparation of engineering layout, manufacture , procurement of boughtout items etc) of 20 KL capacity anhydrous ethanol PLANT on turn key basis for The Kisan Sahkari Chini Mills Ltd. Distillery Unit Ghosi, Mau as per specifications given in the bid document.

REFERENCE	: UPSUGARFED/GM(A.T)/169B/2015-16/5
e-Bid Submission/Download Start Date	: 19/02/2016 From 6:55 PM
LAST DATE AND TIME FOR SUBMISSION OF e-Bids	: 17/03/2016 UPTO 6:55 PM
DATE AND TIME OF OPENING OF ON LINE TECHNICAL e-Bids	: 18/03/2016 AT 01:00 PM
DATE & TIME OF FINANCIAL e-Bids	: 29/03/2016 AT 01:00 PM
PLACE OF OPENING OF e-Bids	: U.P. Co-operative Sugar Factories Federation Ltd. 9-A, Rana Pratap Marg, Lucknow
ADDRESS FOR COMMUNICATION	: Managing Director U.P. Co-operative Sugar Factories Federation Ltd. 9-A, Rana Pratap Marg, Lucknow
e-Bid E.M.D	: Rs. 10,00,000/- (Rs Ten Lacs Only).

This Document Contains 86 Pages

It will be the responsibility of the e-Bidders to check U.P. Government e-Procurement website <http://etender.up.nic.in> for any amendment through corrigendum in the e-tender document. In case of any amendment, e-Bidders will have to incorporate the amendments in their e-Bids accordingly.

e-tender Document Processing /Cost : **Rs 5000.00**

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E-Tender Notice

Online e-tenders are invited for Supply, erection and commissioning (including design, preparation of engineering layout, manufacturing, procurement of bought out items, construction of civil foundation of plant machinery and equipments, factory and non-factory buildings with all necessary infra structure, landscaping etc.) from distillery/ethanol plant manufacturers at following sugar factories.

S.No.	Particulars	Details of e-bids	Date	Time	
1	Molasses based distillery for production of 40 KLPD anhydrous ethanol on EPC basis and to operate the plant for 24 months from the date of commercial production at The Kisan Sahkari Chini Mills Ltd., Sneh Road, Najibabad, Distt. Bijnor, Uttar Pradesh	e-bid submission/download date	19-02-2016	06:55 PM	
		Pre bid meeting date & time	01-03-2016	11:00 AM	
		Last date and time for submission of e-bids	17-03-2016	06:55 PM	
		Date and time of opening of online technical e-bid	18-03-2016	1:00 PM	
		Opening of Financial e-bid	29-03-2016	1:00 PM	
		e-bid E.M.D. (in the form of Demand draft of any nationalised/scheduled bank)	1,20,00,000.00 (One crore Twenty lacs only)		
		Tender Fees (Non refundable in the form of Demand draft of any nationalised/scheduled bank)	10000.00 (Ten thousand only)		
2	Molasses based distillery for production of 30 KLPD ENA and 30 KLPD anhydrous ethanol plant on EPC basis and to operate the plant for 24 months from the date of commercial production at The Kisan Sahkari Chini Mills Ltd., Sathiaon, Distt. Azamgarh, Uttar Pradesh	e-bid submission/download date	19-02-2016	06:55 PM	
		Pre bid meeting date & time	01-03-2016	11:00 AM	
		Last date and time for submission of e-bids	17-03-2016	06:55 PM	
		Date and time of opening of online technical e-bid	18-03-2016	1:00 PM	
		Opening of Financial e-bid	29-03-2016	1:00 PM	
		e-bid E.M.D. (in the form of Demand draft of any nationalised/scheduled bank)	1,20,00,000.00 (One crore Twenty lacs only)		
		Tender Fees (Non refundable in the form of Demand draft of any nationalised/scheduled bank)	10000.00 (Ten thousand only)		
3	20 KL capacity anhydrous ethanol PLANT on EPC basis in existing Molasses based distillery at The Kisan Sahkari Chini Mills Ltd. Distillery Unit Ghosi, Mau	e-bid submission/download date	19-02-2016	06:55 PM	
		Last date and time for submission of e-bids	17-03-2016	06:55 PM	
		Date and time of opening of online technical e-bid	18-03-2016	1:00 PM	
		Opening of Financial e-bid	29-03-2016	1:00 PM	
		e-bid E.M.D. (in the form of Demand draft of any nationalised/scheduled bank)	1000000.00 (Ten Lacs Only)		
		Tender Fees (Non refundable in the form of Demand draft of any nationalised/scheduled bank)	5000.00 (Five thousand Only)		

The details of submission of e-bids along with eligibility criteria, date & time, pre bid meeting, opening of Technical/Financial bids, EMD, experience and other terms & conditions will be available on e-tender portal <https://etender.up.nic.in> and on Federation's website www.upsugarfed.org from **dated 19-02-2016 at 06:55 PM** from where tender documents may be downloaded by any bidder. The tender fee is Non refundable and required EMD will be deposited in Federation office before opening of Technical bid. The detailed terms and conditions are given in e-tender document. The Managing Director reserves the right to cancel any or all bids/annul e-bidding process without assigning any reason thereof. The decision of Managing Director will be final & binding upon bidders.

(Dr. B K. YADAV)
Managing Director

Scope of Work

Scope of work shall be as follows for Anhydrous Ethanol PLANT (fuel ethanol grade) .

The Scope of work:- Supply, Erection and Commissioning (including design, preparation of engineering layout, manufacture, procurement of bought out items etc) of 20 KL per day capacity anhydrous ethanol PLANT on turnkey basis as per scope of work and specifications given in the bid document including price of providing skilled staff for operation and technical supervision for one year at The Kisan Sahkari Chini Mills Ltd. Distillery Unit , Ghosi, Mau Uttar Pradesh.

The PLANT and machinery, equipments, instruments etc, shall be quoted as per the technical specifications given in Technical specification section and as per the battery limits specified therein and shall be guaranteed to achieve the parameters given in the performance guarantee clause.

- 1.1 The capacity, efficiency & performance of the said PLANTs for production of Anhydrous Ethanol should be guaranteed as per parameters, given in the performance guarantee clause.
- 1.2 The work is to be executed as per the terms & Conditions stipulated in this invitation and also in the draft agreement.
- 1.3 The scope of work includes the supply/ fabrication of necessary equipments, PLANT & machineries, buildings, structural's roofing, painting etc (as per section 3c technical specifications) to meet with the requirements complete with the packing & forwarding charges, transit cum storage cum erection insurance, custom duties, excise duties, sales tax & other government levies, if any erection, supervision and commissioning charges. This also includes other tools & tackles required for the fabrication at site adequate manpower, quite conversant to the fabrication & erection work of such PLANT and machinery. All civil works, foundation, land scaping etc are included in the scope of the tender. It also includes PLANT and yard lighting.
- 1.4 All foundation bolts, foundation wedges, foundation packing, liners etc are also to be included in the scope of supply.
- 1.5 After the finalization of the order, the Supplier has to prepare all the foundation and other civil drawing & all the detailed fabrication drawings of each and every part of PLANT & machinery, piping layout drawing, isometric drawing, equipment layout drawing, elevation drawing to be approved from Purchaser by appointing a competent person/ agency as well as by concerned Govt. Authority and shall be submitted well in advance to Purchaser & Purchaser's agency for prior examination & approval thereof. The Supplier shall also arrange to get the drawing approved from U.P State Excise department. However, the application and other required legal formalities shall be completed by the Purchaser.
- 1.6 All the consumables required for erection & Commissioning like gas, all types of welding/ brazing or soldering rods, emery papers, grinding paste, hold tight graphite, Kerosene Oil, Rustoberg, back joints, steam packing's etc. are also to be included in the scope of supply. Only IOL or Advani make electrodes shall be used for fabrication works.
- 1.7 All types of tools & tackles like hoisting tools, chain blocks, pulleys, wire ropes hooks etc. to be arranged by Supplier. All special tools required are also to be arranged by the Supplier . All staff including engineers, technicians, skilled, unskilled workers, khalasi required for loading/ unloading, fabrication erection etc. should be arranged by Supplier. The machinery & other equipments arrived at Site

should be properly stored at Site. The transportation of machinery and equipments from the stored place to their respective position shall also be arranged by the Supplier.

- 1.8 **Requirements of Petroleum and Explosive Security Organisation (PESO) has also to be fulfilled for Ethanol storage.**
- 1.9 **Technical services :** The technical services shall include.
- 1.10 **Project In charge:** Supplier will provide a qualified & experienced project engineer/ manager to supervise the installation & erection of the PLANT who will be stationed at Site.
- 1.11 **Training of the Purchaser's personnel:** Supplier shall arrange to train the Purchaser's personnel regarding the process operation & maintenance of the PLANT on its own cost if any.
- 1.12 **Startup services:** Supplier will provide qualified staff for start up of PLANT, trial run and performance period.
- 1.13 **After sales services:** Routine operation field review & training update. Supplier will furnish a qualified field engineer to review unit operations & provide additional on Site training on demand by Purchaser. The bidder's are also required to provide skilled staff for operation and technical supervision for one year after commissioning by their own trained operating staff which will include one operator in each shift and one instrument mechanic.
- 1.14 Electricity required for Site fabrication will be supplied at actual cost, but energy meter required for the same will have to be arranged by Supplier However, water required for erection & trials will be supplied free of cost.
- 1.15 **The bidder is required to depute their technical representative for Site inspection to our factory Site before submitting their bid.**
- 1.16 The tenderer should get acquainted with the local conditions at the factory Site & must be acquainted with the rules & regulations of Central & State Govt.
- 1.17 All fabrication of equipments will be done under stage wise third party inspection (arranged by Purchaser). All bought out equipments should be offered for inspection before dispatch.
- 1.18 Design, supply, erection and mechanical & water commissioning of the PLANT & machinery should be completed within six months from the date of agreement.
- 1.19 The Supplier will prepare & submit to Purchaser the PERT/ CPM chart and time schedule for progress and completion of work. Accordingly Supplier will adhere to the time schedule from progress and completion of works.
- 1.20 The price should be quoted in the specified format. Income Tax applicable will be deducted at source.
- 1.20.1 Supplier should submit all built drawing (Three copies each) for all fabricated equipments, actual equipment layout, piping layout, cable layout & elevation drawing.
- 1.21 First fill of oil & grease will be in the scope of Supplier.
- 1.22 The Supplier shall also make available the required design data and drawings etc as desired by excise and other govt. department for their approval.

INVITATION FOR e-Bids

On line E-tenders are invited for for Supply, Erection and Commissioning (including design, preparation of engineering layout, manufacture, procurement of bought out items etc) of 20 KL per day capacity anhydrous ethanol PLANT on turnkey basis as per scope of work and specifications given in the bid document including price of providing skilled staff for operation and technical supervision for one year at The Kisan Sahkari Chini Mills Ltd. Distillery Unit Ghosi, Mau, Uttar Pradesh.

1. Bidders are advised to study the tender Document carefully. Submission of e-Bid against this tender shall be deemed to have been done after careful study and examination of the procedures, terms and conditions of the tender Document with full understanding of its implications.
2. The e-Bid prepared in accordance with the procedures enumerated in ITB Clause 15 of Section-I should be submitted through e-Procurement website <http://etender.up.nic.in>.
3. The tender document is available at e-Procurement website <https://etender.up.nic.in> or Federation's website www.upsugarfed.org from 19/02/2016 at 6:55 PM. Interested bidders may view, download the e-Bid document, seek clarification and submit their e-Bid online up to the date and time mentioned in the table below:

(a)	Date of publication of e-tender notice & availability of Tender Document	Tender Notice has been published over e-Procurement website https://etender.up.nic.in and Federation's website www.upsugarfed.org and tender Document will be available from at 19/02/2016 from 6:55 PM at e-Procurement website http://etender.up.nic.in and Federation's website www.upsugarfed.org
(b)	Availability of tender document on website	19/02/2016 from 6:55 PM at e-Procurement website https://etender.up.nic.in and Federation's website www.upsugarfed.org
(c)	Clarification start date & time	19/02/2016 from 6.55PM
(d)	Clarification end date & time	17/03/2016 upto 2:00 PM
(e)	e-Bid submission start date & time (Submission of e-tender fee, EMD and other supporting documents in PDF/XLS format)	19/02/2016 from 6:55 PM
(f)	e-Bid submission end date & Time	17/03/2016 upto 6.55 PM
(g)	Online technical e-Bid opening date & time	18/03/2016 at 01:00 PM
(h)	Online financial e-Bid opening date & time	29/03/2016 at 01:00 PM

(i)	Venue of opening of technical & financial e-Bids	U.P. Co-operative Sugar Factories Federation Ltd. 9-A, Rana Pratap Marg, Lucknow.
(j)	Contact officer	Name: Sunil Kumar – 7880888813, M K Kulshreshth – 7880888812, N.K. Yadav (7880888811) A K Srivastava - 7880888825
(k)	Cost of e-Bid document	Rs 5000 (Rupees Five Thousand Only). (Non-refundable)
(l)	e-Bid E.M.D	Rs 10,00,000/- (Rupees Ten Lac Only)

4. The bidders need to submit the proof of submission of cost of e-Bid document/processing fee as stated in the above table through Demand Draft drawn on any nationalized/scheduled bank in favour of U.P. Co-operative Sugar Factories Federation Ltd (herein after referred as the Federation / the Purchaser) payable at Lucknow. The scanned copy of Demand Draft must be enclosed along with the e-Bids but the original Demand Draft should reach the office of the Federation / the Purchaser at Lucknow before opening of technical e-Bid.
5. All e-Bid must be accompanied by e-Bid Earnest Money Deposit (EMD) in the form of Demand Draft, drawn on any nationalized/scheduled bank in favour of U.P. Co-operative Sugar Factories Federation Ltd., Lucknow. The scanned copy of the demand draft for e-Bid EMD must be submitted along with the e-Bid and the original should reach the Federation's office at Lucknow before opening of technical e-Bids. No Interest would be payable on e-Bid (Earnest Money) deposited with the Federation.
6. The e-Bids will be electronically opened in the presence of bidder's representatives, who choose to attend the venue on the date and time mentioned in the above table. An authority letter of bidders' representative will be required to be produced.
7. The Federation reserves the right to cancel any or all the e-Bids/annul the e-Bid process without assigning any reason thereof. The decision of the Federation will be final and binding.
8. In the event of date specified for e-Bids opening being declared a holiday for the Federation's office then the due date for opening of e-Bids shall be the following working day at the appointed time and place.
9. All the required documents including Price Schedule/BOQ should be uploaded by the e-Bidder electronically in the PDF/XLS format. The required electronic documents for each document label of Technical (Fee details, Qualification details, e-Bid Form and Technical Specification details) schedules/packets can be clubbed together to make single different files for each label.
10. The companies/firms who are registered at e-Procurement portal for e-tendering with UP Electronics Corporation Ltd, 10 Ashok Marg, Lucknow-226002, would only be eligible for participating in this e-tender as well as in e-tendering system of U.P. Govt. departments. All companies/firms who have not registered themselves with UPLC Ltd ,Lucknow for e-tendering till date can get their registration done by

depositing a filled in form issued by UPLC Ltd, Lucknow along with registration fee of Rs. 6000.00 (Rupees Six thousand only) for participating in this e-tender and other e-tenders of U.P.Govt. Departments. The companies/firms, who are not having digital signature, can also get their digital signature on deposit of processing fees of Rs.1500.00 (Rupees One thousand Five Hundred only). The companies/firms may contact the officials on phone numbers (0522) 4130303 Extn 305 & 307, 09721451211, for their Registration/Digital Signature Certificate related queries. The registration fee may also be deposited through RTGS. The details of RTGS are as under:

M/s U.P.Electronics Corporation Ltd, Lucknow
Indian Bank
Ashok Marg, Lucknow
A/C No. 772819168
IFC code- IDIB 00000002
CBS code- 00527
Rs.6000/-

For E-Tendering Enquiry Please Contact Following Persons

01.Sri Rritvik Saxena	-	09415526023,7880888823	Federation
02.Sri Anupam Shukla	-	09721451225	U.P.L.C.
03.Sri Rashid Hussain	-	09935149327	U.P.L.C.
04.Sri Siddharth Shukla	-	09005621259	U.P.L.C.

SECTION I : INSTRUCTIONS TO BIDDERS (ITB)

(A) THE BID DOCUMENT

1-Cost of e-Bid

- a) The bidder shall bear all costs associated with the preparation and submission of its e-Bid and U.P. Co-operative Sugar Factories Federation Ltd, Lucknow hereinafter referred to as “the Purchaser”, will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the e-Bid process.
- b) This tender document is available on the website <http://etender.up.nic.in> and www.upsugarfed.org to enable the bidders to view, download the e-Bid document and submit e-Bids online up to the last date and time mentioned in e-Tender notice/e-tender document against this e-Tender. The bidders shall have to pay e-Tender document fee of **Rs 5000.00 (Rupees Five Thousand Only)** through Demand Draft drawn on any nationalized/scheduled bank payable in favour of U.P. Co-operative Sugar Factories Federation Ltd, Payable at Lucknow. The scanned copy of the Demand Draft must be enclosed along with the e-Bid but the original Demand Draft should reach the Purchaser’s office before opening of the technical e-Bid. This e-tender document fee of Rs. 5000.00 will be non-refundable.

2-Contents of e-Bid Document

- 2.1 The goods required to be supplied; e-Bid procedure and contract terms and conditions are prescribed in the e-Bid document. The e-Bid document includes:

Invitation for e-Bid

Section I : Instruction to bidders (ITB);

Section II : Conditions of E-tender/ Contract (CC),

Section III : Technical e-Bid;

Section IV : Financial e-Bid;

- 2.2 The bidder is expected to examine all instructions, forms, terms and specifications in the e-Bid document. Failure to furnish all information required as per the e-Bid document or submission of e-Bid not responsive to the e-Bid document in every respect will be at the bidder’s risk and may result in rejection of the said e-Bid.

3-Clarification of e-Bid Document

A prospective bidder requiring any clarification of the e-Bid document may raise his/her point of clarification through Bid Management Window after successfully login to the e-Procurement website <http://etender.up.nic.in>. The bidder may seek clarification by posting query in the relevant window after clicking "Seek Clarification" option in the view e-tender details window for e-tender which can be selected through my tender option of e-Bid submission menu. The clarification will be replied back by the Purchaser through the e-Procurement website which can be read by the bidder through the "Clarification" option under Bid Submission menu.

The Purchaser may also respond to clarifications raised by the prospective bidders on Purchaser's e-mail address upsugarfed@yahoo.co.in.

4. Amendment of e-Bid Document

- 4.1 At any time prior to the deadline for submission of e-Bid, the Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the e-Bid document by amendments. Such amendments shall be uploaded on the e-Procurement website <http://etender.up.nic.in> and Purchaser's website www.upsugarfed.org through corrigendum and shall form an integral part of e-Bid document. The relevant clauses of the e-Bid document shall be treated as amended accordingly.
- 4.2 It shall be the sole responsibility of the prospective bidders to check the website <http://etender.up.nic.in> and www.upsugarfed.org from time to time for any amendment in the e-tender document. In case of failure to get the amendments, if any, the Purchaser shall not be responsible for it.
- 4.3 In order to allow prospective e-Bidders a reasonable time to take the amendment into account in preparing their e-Bids, the Purchaser, at his discretion, may extend the deadline for the submission of e-Bids. Such extensions shall be uploaded on the e-Procurement website <http://etender.up.nic.in> and Purchaser's website www.upsugarfed.org.

(B) PREPARATION OF e-Bid

5 Language of e-Bid

- 5.1 The e-Bid prepared by the bidder, as well as all correspondence and documents relating to the e-Bid exchanged by the bidder and the Purchaser shall be written either in English or Hindi language. The correspondence and documents in Hindi must be accompanied by embedded/separate Hindi font files. Only English numerals shall be used in the e-Bid.

6 Documents Constituting the e-Bid

- 6.1 The e-Bid prepared by the bidder shall comprise the following components:

- (a) **Technical e-Bid** - Technical e-Bid will comprise of :
- (i) **Fee Details**- Includes copies of e-tender document processing/Cost and e-Bid Earnest Money Deposit furnished in accordance with ITB Clause 12 in PDF format.
- (ii) **Qualification Details** – Includes copies of required documents as per ITB Clauses 10 and 11 in PDF format justifying that the bidder is qualified to perform the contract if his/her bid is accepted and that the bidder has financial, technical and production capability necessary to perform the contract and meets the criteria outlined in the Qualification Requirement and Technical Specification and fulfill all the conditions of the Contract and that the goods and ancillary services to be supplied by the bidder conform to the e-Bid document and Technical Specifications.

- (iii) **e-Bid Form** – Includes copy of filled in e-Bid Form as per Section-III(A) of e-tender document in PDF format justifying that the bidder is complying with all the conditions of the Contract and Technical Specifications of the e-Bid Document as no deviation will be acceptable to the Purchaser.
- (iv) **Technical Specification Details** – Includes copy of filled in Technical Specifications as per Section-III(C) of e-tender document in PDF format.
- (b) **Financial e-Bid** – Financial e-Bid will comprise of :
 - (i) **e-Bid Form** – Includes copy of filled in e-Bid Form as per Section-IV (A) of e-tender document in PDF format.
 - (ii) **Price Schedule/BOQ** Includes Price Schedule/BOQ in XLS format to be filled in after downloading from the e-Procurement website for this e-tender.

7-e-Bid Form

- 7.1 The bidder shall complete the e-Bid Form and the appropriate Price Schedule/BOQ furnished in the e-Bid document, including the goods to be supplied, their quantities and prices in the format given in the e-Bid document.

8 e-Bid Price

- 8.1 The bidder shall quote separately in the downloaded spread sheet file for the price of Supply, Erection and Commissioning (including design, preparation of engineering layout, manufacture, procurement of bought out items etc) of 20 KL per day capacity anhydrous ethanol PLANT on turnkey basis as per scope of work and specifications given in the bid document including price of providing skilled staff for operation and technical supervision for one year at Kisan Sahkari Chini Mills Ltd Distillery Unit ,Ghosi, Mau Uttar Pradesh.
- 8.2 The price of PLANTs and machineries is F.O.R Destination including all duties and other taxes.
 - (a) The rate of Supply, Erection and Commissioning (including design, preparation of engineering layout, manufacture, procurement of bought out items etc) of 20 KL per day capacity anhydrous ethanol PLANT on turnkey basis as per scope of work and specifications given in the bid document including price of providing skilled staff for operation and technical supervision for one year at Kisan Sahkari Chini Mills Ltd. Distillery Unit , Ghosi, Mau, Uttar Pradesh
- 8.3 Prices quoted by the bidder shall be fixed during the bidder's performance of the Contract and not subject to variation on any account subject to ITB Clause 25.1. A e-Bid submitted with an adjustable price quotation unless asked for shall be treated as non-responsive and rejected.
- 9 e-Bid Currencies Prices shall be quoted in Indian Rupees only.
- 10 Documents Establishing bidder's Qualification

10.1 Pursuant to ITB Clause 6, the bidder shall furnish, as part of its Technical e-Bid, documents establishing the bidder's qualification to perform the Contract if its e-Bid is accepted. The documentary evidence should be submitted by the bidder electronically in the PDF format.

10.2 The documentary evidence of bidder's qualification to perform the Contract if its e-Bid is accepted shall be as per Qualification Requirements specified in Section III (F) of e-tender document.

11 Documents Establishing Goods' Conformity to e-Bid Documents

11.1 Pursuant to ITB Clause 6, the bidder shall furnish, as part of its e-Bid, documents establishing the conformity to the e-Bid documents of all goods and services which the bidder proposes to supply under the contract. The documentary evidence should be in the PDF file format.

12 e-Bid Earnest Money Deposit (EMD)

12.1 Pursuant to ITB Clause 6, the bidder shall furnish, as part of its e-Bid, an e-Bid **EMD of 10,00,000/- (Rupees Tent Lacs) only** in form of Demand Draft drawn of any nationalized/ scheduled bank in favour of U.P. Co-operative Sugar Factories Federation Ltd., Lucknow. The scanned copy of the demand draft for e-Bid EMD must be submitted along with the e-Bid and the original should reach the Purchaser's office at Lucknow before opening of technical e-Bid. No Interest on EMD will be paid.

12.2 The e-Bid E.M.D is required to protect the Purchaser against the risk of bidder's conduct which would warrant the EMD's forfeiture, pursuant to ITB Clause 12.7.

12.3 The e-Bid E.M.D shall be in Indian Rupees and shall be in the following forms only: A demand draft payable in favour of U.P. Co-operative Sugar Factories Federation Ltd at Lucknow drawn on any Nationalized/Scheduled Bank.

12.4 Any e-Bid not secured in accordance with ITB Clauses 12.1 and 12.3 above shall be treated as non-responsive and rejected by the Purchaser.

12.5 Unsuccessful bidder's e-Bid E.M.D will be returned upon the written request through cheque or DD in original submitted at the time of E-bid or as promptly as possible.

12.6 The successful bidder's e-Bid E.M.D will be converted in security which shall be 5% of the Contract Price. The balance amount shall be deducted from the bills on prorata basis.

12.7 The e-Bid E.M.D may be forfeited:

(a) if a bidder (i) withdraws its e-Bid during the period of e-Bid validity specified by the bidder on the e-Bid Form; or (ii) does not accept the correction of errors pursuant to ITB Clause 22.2; or (iii) modifies its e-Bid price during the period of e-Bid validity specified by the bidder on the e-Bid form or

(b) in case of a successful bidder, if the bidder fails:

(i) to sign the Contract with the Purchaser in accordance with ITB Clause 28; or

(ii) to furnish performance security in accordance with ITB Clause 29.

13 Period of Validity of e-Bid

- 13.1 e-Bid shall remain valid upto six months from the opening of financial bid. after date of e-Bid opening prescribed by the Purchaser, pursuant to ITB Clause 16. An e-Bid valid for a shorter period shall be rejected by the Purchaser as non-responsive.
- 13.2 In exceptional circumstances, the Purchaser may solicit the bidder's consent to an extension of the period of e-Bid validity. The request and the response thereto shall be made in writing. A bidder may refuse the request without forfeiting its e-Bid security. A bidder granting the request will not be required nor permitted to modify its e-Bid.

14 Format and Signing of e-Bid

- 14.1 The bidder shall prepare one electronic copy each of the Technical e-Bid and Financial e-Bid separately.
- 14.2 The e-Bid document shall be digitally signed, at the time of uploading, by the bidder or a person or persons duly authorized to bind the bidder to the Contract. The letter authorization shall be indicated by a scanned copy of written power-of-attorney accompanying the e-Bid. All the pages/ documents of the e-Bid that are to be uploaded shall be digitally signed by the person authorized to sign the e-Bid.

15. Submission of e-Bid

The Bid Submission module of e-Procurement website <http://etender.up.nic.in> enables the bidders to submit the e-Bid online in response to this e-tender published by the Purchaser. Bid Submission can be done only from the Bid Submission start date and time till the Bid Submission end date and time given in the e-tender. Bidders should start the Bid Submission process well in advance so that they can submit their e-Bid in time. The bidders should submit their e-Bid considering the server time displayed in the e-Procurement website. This server time is the time by which the e-Bid submission activity will be allowed till the permissible time on the last/end date of submission indicated in the e-tender schedule. Once the e-Bid submission date and time is over, the bidders cannot submit their e-Bid. For delay in submission of e-Bid due to any reasons, the bidders shall only be held responsible.

The bidders have to follow the following instructions for submission of their e-Bid:

- 15.1 For participating in e-Bid through the e-tendering system, it is necessary for the bidders to be the registered users of the e-Procurement website <http://etender.up.nic.in>. The bidders must obtain a User Login Id and Password by registering themselves with U.P. Electronics Corporation Limited, Lucknow if they have not done so previously for registration. Refer to details given in Invitation for e-Bid Clause 10.
- 15.2 In addition to the normal registration, the bidder has to register with his/her **Digital Signature Certificate (DSC)** in the e-tendering system and subsequently he/she will be allowed to carry out his/her e-Bid submission activities. Registering the Digital Signature Certificate (DSC) is one time activity. Before proceeding to register his/her DSC, the bidder should first log on to the e-tendering system using the User Login option on the home page with the Login Id and Password with which he/ she has registered as per clause 15.1 above.

For successful registration of DSC on e-Procurement website <https://etender.up.nic.in> the bidder must ensure that he/she should possess Class-2/ Class-3 DSC issued by any certifying authorities approved by Controller of Certifying Authorities, Government of India, as the e-Procurement website [https:// etender.up.nic.in](https://etender.up.nic.in) is presently accepting DSCs issued by these authorities only. The bidder can obtain User Login Id and perform DSC registration exercise as described in clauses 15.1 and 15.2 above even before e-Bid submission date starts. The Purchaser shall not be held responsible if the bidder tries to submit his/her e-Bid at the last moment before end date of submission but could not submit due to DSC registration problem.

- 15.3 The bidder can search for active tenders through "Search Active tenders" link, select a tender in which he/she is interested in and then move it to 'My Tenders' folder using the options available in the e-Bid Submission menu. After selecting and viewing the tender, for which the bidder intends to e-Bid, from "My Tenders" folder, the bidder can place his/her e-Bid by clicking "Pay Offline" option available at the end of the view tender details form. Before this, the bidder should download the e-tender document and Price Schedule/Bill of Quantity (BOQ) and study them carefully. The bidder should keep all the documents ready as per the requirements of e-tender document in the PDF format except the Price Schedule/Bill of Quantity (BOQ) which should be in the XLS format (Excel sheet).
- 15.4 After clicking the 'Pay Offline' option, the bidder will be redirected to the Terms and Conditions page. The bidder should read the Terms & Conditions before proceeding to fill in the Tender Fee and EMD offline payment details. After entering and saving the Tender Fee and EMD details, the bidder should click "Encrypt & Upload" option given in the offline payment details form so that "Bid Document Preparation and Submission" window appears to upload the documents as per Technical (Fee details, Qualification details, e-Bid Form and Technical Specification details) and financial (e-Bid Form and Price Schedule/BOQ) schedules/packets given in the tender details. The details of the Demand Draft or any other accepted instrument which is to be physically sent in original before opening of technical e-Bid, should tally with the details available in the scanned copy and the data entered during e-Bid submission time otherwise the e-Bid submitted will not be accepted.
- 15.5 Next the bidder should upload the Technical e-Bid documents for Fee details (e-tender fee and EMD), Qualification details as per "ITB Clause 10 or 21", e-Bid Form as per "Section-III(A)" and Technical Specification details as per "Section-III(C):Technical Specifications" and Financial e-Bid documents as per "Section-IV(A):e-Bid Form" and "Section-IV(B):Price Schedule/BOQ" of e-tender document. Before uploading, the bidder has to select the relevant Digital Signature Certificate. He may be prompted to enter the Digital Signature Certificate password, if necessary. For uploading, the bidder should click "Browse" button against each document label in Technical and Financial schedules/packets and then upload the relevant PDF/XLS files already prepared and stored in the bidder's computer. The required documents for each document label of Technical (Fee details, Qualification details, e-Bid Form and Technical Specification details) and financial (e-Bid Form and Price Schedule/BOQ) schedules/packets can be clubbed together to make single different files for each label.

- 15.6 The bidder should click "Encrypt" next for successfully encrypting and uploading of required documents. During the above process, the e-Bid documents are digitally signed using the DSC of the bidder and then the documents are encrypted/locked electronically with the DSC's of the bid openers to ensure that the e-Bid documents are protected, stored and opened by concerned bid openers only.
- 15.7 After successful submission of e-Bid document, a page giving the summary of e-Bid submission will be displayed confirming end of e-Bid submission process. The bidder can take a printout of the bid summary using the "Print" option available in the window as an acknowledgement for future reference.
- 15.8 Purchaser reserves the right to cancel any or all e-Bids without assigning any reason.

16-Deadline for Submission of e-Bid

- 16.1 e-Bid (Technical and Financial) must be submitted by the bidders at e-Procurement website <http://etender.up.nic.in> not later than **time 6.55 P.M and 17/03/2016** the date as mentioned on page 6 (as the server time displayed in the e-Procurement website).
- 16.2 The Purchaser may, at its discretion, extend this deadline for submission of e-Bid by amending the e-Bid document in accordance with ITB Clause 4, in which case all rights and obligations of the Purchaser and bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

17 Late e-Bid

- 17.1 The server time indicated in the Bid Management window on the e-Procurement website <http://etender.up.nic.in> will be the time by which the e-Bid submission activity will be allowed till the permissible date and time scheduled in the e-tender. Once the e-Bid submission date and time is over, the bidder cannot submit his/her e-Bid. Bidder has to start the Bid Submission well in advance so that the submission process passes off smoothly. The bidder will only be held responsible if his/her e-Bid is not submitted in time due to any of his/her problems/faults, for whatsoever reason, during e-Bid submission process.

18 Withdrawal and Resubmission of e-Bid

- 18.1 At any point of time, a bidder can withdraw his/her e-Bid submitted online before the bid submission end date and time. For withdrawing, the bidder should first log in using his/ her Login Id and Password and subsequently by his/her Digital Signature Certificate on the e-Procurement website <http://etender.up.nic.in>. The bidder should then select "My Bids" option in the Bid Submission menu. The page listing all the bids submitted by the bidder will be displayed. Click "View" to see the details of the e-Bid to be withdrawn. After selecting the "Bid Withdrawal" option, the bidder has to click "Yes" to the message "Do you want to withdraw this bid?" displayed in the Bid Information window for the selected bid. The bidder also has to enter the bid Withdrawing reasons and upload the letter giving the reasons for withdrawing before clicking the "Submit" button. The bidder has to confirm again by pressing "Ok" button before finally withdrawing his/her selected e-Bid.

- 18.2 The bidder has to request the Purchaser with a letter, attaching the proof of withdrawal and submission of e-Bid EMD in the office of Purchaser, to return back the e-Bid security/EMD as per the manual procedure.
- 18.3 No e-Bid may be withdrawn in the interval between the deadline for submission of e-Bids and the expiration of period of e-Bid validity. Withdrawal of an e-Bid during this interval may result in the bidder's forfeiture of his/her e-Bid E.M.D, pursuant to ITB Clause 12.7.
- 18.4 The bidder can re-submit his/her e-Bid as and when required till the e-Bid submission end date and time. The e-Bid submitted earlier will be replaced by the new one. The payment made by the bidder earlier will be used for revised e-Bid and the new e-Bid submission summary generated after the successful submission of the revised e-Bid will be considered for evaluation purposes. For resubmission, the bidder should first log in using his/her Login Id and Password and subsequently by his/her Digital Signature Certificate on the e-Procurement website <http://etender.up.nic.in>. The bidder should then select "My Bids" option in the Bid Submission menu. The page listing all the bids submitted by the bidder will be displayed. Click "View" to see the details of the e-Bid to be resubmitted. After selecting the "Bid Resubmission" option, click "Encrypt & Upload" to upload the revised e-Bid documents by following the methodology provided in clauses 15.4 to 15.7.
- 18.5 The bidders can submit their revised e-Bids as many times as possible by uploading their e-Bid documents within the scheduled date & time for submission of e-Bids.
- 18.6 No e-Bid can be resubmitted subsequently after the deadline for submission of e-Bids.

(C) e-Bid OPENING AND EVALUATION OF e-Bid

19(A) Opening of Technical e-Bid by the Purchaser

- 19.A-1 The Purchaser will open all technical e-Bids, in the presence of bidders' representatives who choose to attend at **01:00 PM on 18/03/2016** at U.P. Co-operative Sugar Factories Federation Ltd, 9-A, Rana Pratap Marg, Lucknow. The bidder's representatives who are present shall sign a register evidencing their attendance. In the event of the specified date of e-Bid opening being declared a holiday for the Purchaser, the e-Bids shall be opened at the appointed time and place on the next working day.
- 19.A-2 The bidder's names and the presence or absence of requisite e-Bid EMD and such other details as the Purchaser at its discretion may consider appropriate, will be announced at the opening. The name of such bidders not meeting the Technical Specifications and qualification requirement shall be notified subsequently.
- 19.A-3 The Purchaser will prepare minutes of the e-Bid opening.
- 19.A-4 Managing Director reserves the right to postpone the date and time of opening of Technical & Financial E-Bid in unavoidable circumstances. All the bidders will be informed accordingly.

19(B) Opening of Financial e-Bid

- 19 B-1 After evaluation of technical e-Bid, the Purchaser shall notify those bidders whose technical e-Bids were considered non-responsive to the Conditions of the Contract and not meeting the technical specifications and Qualification Requirements indicating that their financial e-Bids will not be opened. The Purchaser will simultaneously notify the bidders, whose technical e-Bids were considered acceptable to the Purchaser. The notification may be sent by letter, fax or by e-mail.
- B-2 The financial e-Bids of technically qualified bidders shall be opened on **29/03/2016 at 01.00 PM** in the presence of bidders who choose to attend the bid opening. The date for opening of financial bids will be communicated to the technically qualified bidders subsequently after completion of technical e-bid evaluation. The name of bidders and quoted F.O.R. Price quoted will be announced at the meeting.
- B-3 The Purchaser will prepare the minutes of the e-Bid opening.

20 Clarification of e-Bid

- 20.1 During evaluation of e-Bid, the Purchaser may, at its discretion, ask the bidder for a clarification of his/her e-Bid. The request for clarification and the response shall be in writing.

21 Evaluation of technical e-Bid and Evaluation Criteria

The Purchaser will examine the e-Bid to determine that they are complete, whether they meet all the conditions of the Contract, that required e-tender fee, e-Bid EMD and other required documents have been furnished, that the documents have been properly digitally signed, and whether the e-Bids are generally in order. Any e-Bid or e-Bids not fulfilling these requirements shall be rejected.

The bidders shall submit the scanned copies of following as documentary proof for evaluation of their technical e-Bids:-

- 21.1 The bidder should have adequate experience of Supply, Erection and Commissioning (including design, preparation of engineering layout, manufacture , procurement of boughtout items etc) of **two** Anhydrous Ethanol PLANTs (fuel ethanol grade) on turnkey basis for which order copies along with performance certificate should also be enclosed with the tender.
- 21.2 Current Solvency Certificate for minimum amount of rupees 4 crores in case of proprietary firm/Partnership Firm duly issued by district administration and in case of companies net worth certificate for minimum amount of rupees 4 crores duly certified by a Chartered Accountant.
- 21.3 The bidder should submit the detail of last three years turnover i.e. financial year 2012-13,2013-14 and 2014-15 duly certified by Chartered Accountant for a minimum turnover of rupees 4.00 crores.
- 21.4 The bidder shall submit the copies of the detail of E.M.D.
- 21.5 The bidder shall submit the copies of the Authorization letter by the competent authorities for the authorized person.

- 21.6 The bidder shall submit required documentary proof, failing which the tender shall be rejected.
- 21.7 The bidder shall submit the copies of registration certificate of industries department of the state.
- 21.8 The bidder shall submit the copies of orders for satisfactory Supply Erection & Commissioning of Ethanol PLANT to Distilleries and other industries of Govt. and private sector during last five year along with performance certificate.
- 21.9 The bidder shall submit the copies of the last submitted Income Tax Return for the financial year 2014-15 & copy of PAN card (copy self attested).
- 21.10 The bidder shall submit the copies of the details of Trade Tax/ CST registration/ TIN NO/Central Excise Registration.
- 21.11 The bidder shall submit the documentary proof of the Status of the company along with names of Directors/Partners/Proprietor along with documents.
- 21.12 The e-Bids found to be not responsive to and not fulfilling all the conditions of the contract and not meeting Technical Specifications and Qualification Requirements to the satisfaction of Purchaser shall be rejected and may not be subsequently made responsive by the bidder by correction of the non-conformity. The e-Bids of bidders mentioning any of their conditions which are not mentioned in the e-tender document or are not in conformity with the conditions of the contract shall be rejected.
- 21.13 It shall be the discretion of the Purchaser to decide as to whether an e-Bid fulfils the evaluation criterion mentioned in this e-tender or not.
- 21.14 The bidders are advised not to mix financial bid documents with the PDF documents submitted for technical bid. The e-Bids of the bidders having financial bid document in the technical bid will out rightly be rejected.

22 Financial Evaluation and Comparison of e-Bid

- 22.1 The Purchaser will evaluate and compare the financial rates of (Total price) quoted in the price schedule/BOQ of e-Bids of those bidders whose technical e-Bids are found responsive as per the conditions of the e-tender only for those items of the bidders which have been technically accepted by the Purchaser.
- 22.2 No additional payments shall be made for completion of any contractual obligation beyond the quoted prices. If the Supplier does not accept the correction of errors if any, its e-Bid shall be rejected and its e-Bid EMD may be forfeited.
- 22.3 No weightage/preference shall be given to the bidder quoting any higher technical specifications against the technical specifications of the items asked in the e-tender.
- 22.4 The Purchaser's evaluation of a Financial bid shall be based on terms of rate quoted including VAT of Govt of Uttar Pradesh/CST, by the bidder including the cost of Supply, Erection and Commissioning (including design, preparation of engineering

layout, manufacture, procurement of bought out items etc) of 20 KL per day capacity anhydrous ethanol PLANT on turnkey basis as per scope of work and specifications given in the bid document including price of providing skilled staff for operation and technical supervision for one year at Kisan Sakhari Chini Mills Ltd. Ghosi, Mau, Uttar Pradesh.

- . The bidder shall quote price of the PLANTS and machineries such price to include all costs as well as duties and taxes paid , payable on components and raw material incorporated or to be incorporated in the goods, and Excise duty on the finished goods, if payable and price of incidental services, freight, insurance and other costs within India incidental to the delivery of the goods to their final destination as mentioned in para 8.2 of ITB.
- 22.5 The Financial Bids will be opened by Tender Evaluation committee (TEC) in the presence of Bidders’ representatives (only one) who choose to attend the Financial Bid opening on date and time to be communicated to all the technically qualified Bidders. The Bidder’s representatives who are present shall sign a register evidencing their attendance.
 - a) The name of Bidder, Bid Prices etc shall be announced at the meeting. The commercial quotes of the lowest Bidder shall be notified as L-1. The Quantity offered by the L-1 shall be first taken into consideration.
 - b) In case L-1 offers to supply the complete order quantity and is assessed to have the adequate capacity to supply the complete order quantity as per the delivery schedule by the Tender Evaluation committee (TEC) then L-1 shall be contracted to execute the complete supply order.
 - c) In case L-1 backs out, the RFP shall be cancelled & Bids shall be invited again L-1 shall however be blacklisted from participating in any future bidding and are liable for legal action taken by the Federation.

23. Contacting the Purchaser

- 23.1 Subject to ITB Clause 20, no bidder shall contact the Purchaser on any matter relating to his/her e-Bid, from the time of the e-Bid opening to the time the Contract is awarded. If the bidder wishes to bring additional information to the notice of the Purchaser, he/she can do so in writing.
- 23.2 Any effort by a bidder to influence the Purchaser in its decisions on e-Bid evaluation, e-Bid comparison or contract award may result in rejection of the bidder’s e-Bid.

(D) AWARD OF CONTRACT

24 Award Criteria

- 24.1 The Purchaser will determine to its satisfaction whether the bidder(s) that is selected as having submitted the lowest rate (L-1) evaluated responsive bid meets the criteria specified in ITB Clause 10.2, and is qualified to perform the contract satisfactorily.
- 24.2 Subject to ITB Clause 26, the Purchaser will award the contract to the lowest rate (L-1) evaluated successful Bidder whose bid has been determined to be responsive to all the conditions of the contract and meeting the Technical specification and qualification requirement of the Bidding Document.

25 Purchaser’s right to vary Quantities at the Time of Award

- 25.1 The Purchaser reserves the right at the time of Contract award to increase or decrease the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions, depending upon the requirement of end-customer. The Purchaser may also increase or decrease the quantity even after award of contract up to the validity period of E-bid.
- 25.2 If any taxes/duties are increased/ decreased by the Government during the contract period, the same shall be adjusted mutually after submitting the proof by the successful bidder to the Purchaser i.e if there is any decrease in any duty or tax the Purchaser shall have right to deduct from the Contract Price, amount equivalent to the decrease in the duty or tax.

26 Purchaser's right to accept any e-Bid and to reject any or all e-Bids

- 26.1 The Purchaser reserves the right to accept or reject any e-Bid, and to annul the e-Bid process and reject all e-Bids at any time prior to contract award, without thereby incurring any liability to the affected bidder or bidders.

27-Notification of Award

- 27.1 The Purchaser will notify the successful bidder in writing by letter/e-mail/fax, that its e-Bid has been accepted. Normally it will be informed within 30 days after opening of E-commercial/financial bid except in unavoidable circumstances.
- 27.2 The notification of award will constitute the formation of the Contract.

28-Signing of Contract

As the Purchaser notifies the successful bidder that its e-bid has been accepted, the Purchaser will inform to the bidder accordingly.

29- Performance/ Supply Security

The successful bidder shall furnish bank guarantee for 5% of the Contract Price towards timely delivery and commissioning and 5% of the Contract Price towards satisfactory performance. The security deposited with Federation shall be subjected to timely & satisfactorily supply of ordered material & on full & final adjustment of claims/dues of our units recoverable from them & after deducting penalty if any.

30. Performance Guarantee:

- 30.1 As per the parameters given in draft agreement.
- 30.2 All the PLANT & machinery its accessories should be guaranteed for a period of 12 month from the date of performance trial for material, workmanship & performance.
- 30.3 PLANTs & machinery its accessories should be of standard specification, first class quality and workmanship. Any material found defective during the guarantee period shall be replaced by the Supplier free of cost.
- 30.4 Process performance
- a. Capacity, efficiency & yield.
 - b. Raw material consumption
 - c. Utility consumption (Power, steam, cooling water, etc.)
 - d. Power
 - e. Finished product quality.
 - f. Performance of bought out items

SECTION II :CONDITIONS OF E-Tender/ CONTRACT(CC)

PLANT manufacturers having experience of Supply, Erection and Commissioning (including design, preparation of engineering layout, manufacture, procurement of bought out items etc) from PLANT manufacturers having executed at least two MSDH technology based Anhydrous ethanol PLANTs of not less than 20 KL per day capacity capable of providing skilled staff for operation and supervision for one year are eligible to participate in the tender.

1. Price

The F.O.R. rate of Supply, Erection and Commissioning (including design, preparation of engineering layout, manufacture, procurement of bought out items etc) of 20 KL per day capacity anhydrous ethanol PLANT on turnkey basis as per scope of work and specifications given in the bid document including price of providing skilled staff for operation and technical supervision for one year at Kisan Sahkari Chini Mills Ltd. Distillery Unit , Ghosi, Mau, Uttar Pradesh.

- (i) Price will be inclusive of excise duty, VAT/CST, loading charges, Service Tax, transit insurance and other relevant miscellaneous expenses, including transportation charges etc.
- (ii) Subject to clause 6.9 any change in the rate of central excise duty, Taxes etc may be accepted provided documentary proof of the same is submitted for approval.
- (iii) For concessional Sales Tax, Form-C shall be provided by the Purchaser against CST whichever is applicable.

2. DESPATCH OF MATERIAL

- (i) The material should be dispatched as per instructions given by the Purchaser. The material sent by Road Transport, should be sent through the reputed Bank approved Transport company. and duly covered with transit Insurance. Supplier will ensure that the goods are insured to avoid any loss or damage during transit.
- (ii) The supply of material shall be made as per quantitative requirement and specifications given in the order. The excess quantity of supply will not be accepted and will have to be taken back by the Supplier at their own cost and risk.

3. Earnest money

Each bidder should submit a bank draft of a nationalized/ scheduled bank for Rs. 10,00,000/- (Rs. Ten Lacs) Only in favour of U.P. Co-operative Sugar Factories Federation Ltd. payable at Lucknow representing earnest money. The tender without earnest money as above shall not be entertained (Central/State Government agencies or organizations are exempted from the payment of EMD)

4. Security Deposit

Subject to clause 6 Security Deposit shall be 5% of the Contract Price. The EMD amount deposited by the successful bidder shall be automatically converted into security deposit after award of contract. The balance amount shall be deducted from bills on prorata basis. The refund of the security deposit shall be after six months of timely and satisfactory completion of work i.e Supply, Erection and Commissioning (including design, preparation of engineering layout, manufacture, procurement of bought out items etc) of 20 KL per day capacity anhydrous ethanol PLANT on turnkey basis as per scope of work and specifications given in the bid document at

Kisan Sahkari Chini Mills Ltd. Ghosi, Mau, Uttar Pradesh. after start of commercial production and also on full and final adjustment of claim/dues of distillery units or other units of federation and penalties if any.

5. PACKING & FORWARDING:

The material should be packed in secured and sound packing to avoid any damage during the transit. The packing list shall be kept inside each packet.

6. Payment and Bank Guarantee:

Payment to the Supplier will be released in the following manner free of interest

- 6.1 Payment to the Supplier will be made through Demand draft/RTGS/ cheque in favour of Supplier.
- 6.2 The Purchaser will pay the price for supply and erection and commissioning to the Supplier in the following manner free of interest.
 - 6.2.1 Ten percent (10%) of the Contract Price (Excluding Excise Duty and CST/VAT) as mobilization advance will be released in two equal installments. The first installment will be released after issuance of the work order and within 15 days on furnishing of a Bank Guarantee for the amount of 10% of the Contract Price excluding excise duty, CST and VAT of any Nationalized bank on Federation's prescribed proforma. The second installment will be released after successful utilization of the first installment. The advance amount given as above shall be deducted from the supplies bills on prorata basis and then bank guarantee shall be automatically adjusted and get reduced by the extent of total value of Machinery & Equipment related items dispatched by the Supplier upto the time. This guarantee shall remain valid for a period of one year from the date of agreement i.e DOA+365days. However if any amount of advance remains unadjusted within the validity period of Bank Guarantee, the guarantee shall be extended for a further period of six months.
 - 6.2.2. Supplier shall furnish a second Bank Guarantee on Federation prescribed proforma by any nationalized bank for 5% of the Contract Price before signing of the agreement for timely completion of work i.e Supply erection and supervision of erection and satisfactory commissioning upto start of commercial production. As per delivery schedule provided by the Federation (excluding Excise Duty and CST/VAT) The Bank Guarantee shall be valid upto Six months (180 days) after start of commercial production.
 - 6.2.3 Supplier shall furnish a third Bank Guarantee by any nationalized bank for 5% of the Contract Price on federation's prescribed proforma. This Bank Guarantee is in respect of performance of the PLANT and machineries and will be submitted within 60 days of signing of agreement and shall be valid for 12 months (365 days) from date of successful performance trial. The performance guarantee may be released after 12 months of successful performance trail.
 - 6.2.4 The Supplier will submit the break up of price to the Purchaser for stage wise completion of supply, fabrication, erection & commissioning work, Hydraulic trials and installation of all instrument control loops and PLC System and to start satisfactory commercial production. Accordingly, payment of bills will be made as per work progress.
 - 6.2.5. After receipt of material at Site or at the progress of erection and commissioning work, the bill raised along with necessary documents by the Supplier to be paid after making deductions as mentioned above at (4 & 6.2.1). The payment will made through RTGS/DD/Banker's Cheque.
 - 6.3 Taxes & Duties as applicable shall be borne by the successful bidder.
 - 6.3.1 The Govt. Taxes & other levies if any shall be borne by the successful tenderer.

- 6.3.2 The tenderer must declare the liable taxes and duties clearly, the Purchaser on the documentary proof of payment of taxes will pay the same but in no case the Contract Price will exceed than that specified in the tender.
- 6.3.3 Octroi /Entry tax if any applicable shall be borne by the successful tenderer.
- 6.4 **Sales Tax/Vat**
The rate of sales Tax/Vat payable will be as applicable at the time of delivery. Payment is subject to the actual payment to the Govt. and on written undertaking that the same is statutorily payable by the Supplier to the Govt.
- 6.5 **Excise Duty**
- (i) Bidder must declare the excise duties in the tender and the Purchaser on documentary proof will pay the same. The central excise duty applicable will be paid only on receipt of original invoice. If there is any difference in the central excise duty quoted and the actual payment made then the difference amount will be recovered/paid as the case may be.
 - (ii) The Supplier shall also furnish to the Purchaser with their bills all excise invoices in original in support of central excise duty in order to avail CENVAT credit by the Purchaser. If excise invoice is not submitted the relative excise duty amount will not be paid.
- 6.6 **Income Tax**
Income tax as applicable will be deducted at source, while releasing the payment against Bill/Total Bill.
- 6.7 **Work Contract Tax**
Work contract tax if applicable, will be deducted at source, while releasing the payment against Bill/Total Bill.
- 6.8 **Labour Cess**
Labour Cess as applicable, will be deducted at source, while releasing the payment against Bill/Total Bill.
- 6.9 **Changes in Tax Structure**
Any increase or decrease in taxes or duties will be made applicable to both the Purchaser & Supplier subject to the authenticated proof. The increase in the amount of taxes and duties will be on Supplier's account if the material is not supplied as per delivery schedule.
7. The material should strictly conform to the specifications given in the order. The authorized representative of the Federation/The Purchaser may inspect the material at Supplier works/ godown before taking delivery. The Supplier has to provide all facilities in the process of inspection.
- (i) The material should strictly conform to the specifications given in the rate contract/order. The authorized representative of the Federation/ the respective distillery may inspect the material at Supplier work/godown before taking delivery. The Supplier has to provide all facilities in the process of inspection.
 - (ii) The sub-standard material and material not conforming to the specifications will be rejected by the Purchaser. The Supplier will arrange the transport of rejected material at their own cost and risk within 15 days from the factory
 - (iii) For checking of the genuineness of the material, the sample may be taken out and sent to inspecting agency/laboratory by the Purchaser. In case the supplied material is found spurious, the same shall be returned by the Purchaser. The loss on account of cost of material along with interest @18% per annum shall be recovered from the Supplier. Action for Black listing the

Supplier may also be taken by the Purchaser. The inspection expenditure will be born by the supplier.

8. SANCTITY

The Purchase order is final agreement between Supplier and the Purchaser. Any terms and conditions of enquiry/letter, tender/ quotation or any other documents inconsistent with the terms of Purchase Order will have no effect and will be null and void.

9. Delivery & Penalty:

- (i) Delivery period should be as given in our tender document for a particular item .The material should be supplied within this period which will be counted from the date of agreement.
- (ii) If the material is not delivered within stipulated period, the Purchaser reserves the right to return the goods at the cost and expenses of the Supplier and shall recover all losses made in arranging supplies from other sources. The Purchaser also reserves the right to cancel the order and may claim all the amount paid against the order together with interest @18% per annum along with all expenses incurred by the Purchaser in addition to the loss mentioned above.
- (iii) In case the Purchaser accept late deliveries, the liquidated damages for delayed delivery @ of 0.5% per week for the unsupplied part of material subject to maximum of 5% of Contract Price may be charged by the Purchaser.

10. The bidder are required to attach the Proforma of Affidavit duly filled and signed by authorized representative of the bidder with technical e-bid.

11. Negotiation

Normally negotiation of rate shall not be done, if required negotiation of rate can be done with L-1 bidder as per guidelines of CVC. The proprietor/partner/Director of the bidder shall either be present personally or depute their Senior Executive capable of taking spot decision.

12. Arbitration

If at any time, dispute or difference, whatsoever, shall arise between the Supplier and the Purchaser arising out of or in connection with the stipulations of the contract except those which are expressly excluded from the ambit of the contract hereinafter, the parties i.e. Purchaser and Supplier shall at first, settle such dispute or difference amicably by mutual negotiations, However, should the parties i.e. Purchaser and Supplier reach no agreement, either party may, by giving a notice in writing to the other refer such dispute or difference for Arbitration as per the provisions of the Arbitration and Conciliation Act, 1996 where the Managing Director, U.P. Co-operative Sugar Factories Federation Ltd., shall be the Sole Arbitrator. The venue of Arbitration shall be at Lucknow only.

13. In case of non compliance of the conditions of the contract the Managing Director of Federation shall have the power to rescind, cancel and annul the contract, between the Purchaser and the Supplier apart from black-listing the Supplier, and in that event, the sum deposited towards Security Deposit shall be forfeited and gurantee submitted shall be invoked. The Supplier shall be further liable to pay actual amount

- of loss and damages as provided in Indian Contract Act to U.P. Co-operative Sugar Factories federation Ltd. to the extent the same exceeds the Security Deposit.
14. The bidders who are awarded with the rate contract/ order shall supply the material directly to the distillery where the Ethanol PLANT is to be installed and commissioned and in no case they shall be allowed to appoint their dealers for supply of material.
 15. **Jurisdiction:** Notwithstanding anything contained in the above provision, the Allahabad High Court at Lucknow and Courts sub-ordinate thereto shall have the exclusive jurisdiction with regard to any or all matters arising out of the Contract.
 16. Incomplete tender or those without the prescribed EMD may be rejected.
 17. The Supplier should be registered with the Central Excise department so that they may provide CENVAT CREDIT for the items on which the same is available. They will provide all necessary documents such as Excise Invoice etc to the distillery where the Ethanol PLANT is to be installed and commissioned for enabling them to claim CENVAT CREDIT from the Excise Department wherever applicable. In case of Excise duty included in rates then the related documents will have to be furnished by the Supplier, failing which amount of Excise duty as per prevailing rate/rates will be deducted from payment made by the Purchaser.
 18. The Purchaser reserves the right to reject any or all tenders without assigning any reason. The Purchaser also reserves the right to amend or altogether change the terms & conditions in the overall interest of the Organization before finalization of the Purchase Order.
 19. The bidder should mention the guarantee/warranty period of items to be supplied to the Purchaser. In case the supplied materials fail within this stipulated period the same shall be replaced by the Supplier on free of cost basis.
 20. Validity of quoted Rate of e-bid - Six months from date of Financial Bid Opening.
 21. Guarantee/Warranty Period - One year from date of performance trial.

22. Liquidated Damages:

- 22.1 If the Supplier fail to execute the order/contract within the specified period arisen from, any unforeseen cause such as strike, fire, accident, act of GOD resulting in stoppage of work of the manufacture of similar other reasons which the Managing Director of UP Co-operative Sugar Factories Federation Ltd., Lucknow, may find valid for extension of time he may extend the period without charging any agreed liquidated damages. His decision shall be final regarding the sufficiency or otherwise of grounds for extension of time.
- 22.2 If the Supplier fails to execute the order/contract within the specified period the Managing Director of UP Co-operative Sugar Factories Federation Ltd. Lucknow may at his discretion allow extension of time, subject to recovery from the Supplier the liquidated damages which will be @0.5% per week subject to maximum of 5% of the Contract Price.

23. Supplier's Responsibilities.

23.1 Approvals & Consent:

The Supplier shall provide necessary assistance and obtain the necessary approval consents, from State Excise, Central Excise, weights & Measures including calibration / gauging of tanks, factory & electrical inspector, other authorities as per the statutory requirement in respect of PLANT to be supplied/ erected by the Supplier. The Supplier will obtain the required approvals / consents at its own cost.

23.2 Calibration /Gauging of Storage tanks:

Calibration /Gauging of tall storage tanks shall be carried out by Supplier and shall be responsible for obtaining approval of the calibration charts from all concerned statutory authorities.

23.3 Electrical approvals:

1. All flameproof equipments shall be certified by CMRS, Dhanbad, CMRS certificate no. should appear on the nameplate of the equipment.
2. CPRI test certificate of CPRI Bhopal for short-circuit with standing capacity and degree of protection will be furnished by Supplier.
3. Type test certificate of CPRI Bhopal for short-circuit with standing capacity and degree of protection will be furnished by Supplier.
4. The panels shall have Tariff Advisory Committee's Approval.
5. Other necessary approvals/certificates.

23.4 Design & Drawings:

1. The drawings of machinery and equipments are to be offered for approval of Purchaser's inspecting agency.
2. Details fabrication drawing of each & every part of PLANT & machinery, piping layout drawing, isometric drawings, equipment layout drawing, elevation drawing should be submitted well in advance to Purchaser for prior examination and approval.
3. Foundation & civil drawings should be given by Supplier well in advance for prior examination, approval & execution.
4. The rights to all design, drawing specification, tools etc. used for the said unit remains exclusively Purchaser's property. Supplier shall be responsible for obtaining approval of design and drawing from concerned statutory authority.

23.5 Manpower:

1. Staff including Engineers, Technicians, skilled highly skilled and labours required for erection and commissioning of the machinery are to be deputed by the Supplier.
2. The transportation of machinery and equipments from the stored place to their respective position is also be done by the Supplier's staff.
3. Equipment unloading and placement for safe custody shall be done by Supplier.

23.6 Tools & Tackles :

1. Gas cutting equipments, electric welding set, adequate supply of Gas Cylinders and other consumable are to be managed by the Supplier at his cost.
2. All tools and tackles required for erection are to be brought by the Supplier. If Purchaser's tools and tackles are used, extra rent will be charged.
3. All the instruments required for the performance measurement during trials will be arranged by Supplier.

23.7 Breakages / Thefts:

Purchaser will not be responsible for any breakages, theft etc. of the Supplier's material kept at the Site and no claim shall be entertained by the Purchaser.

23.8 Casualty, Loss / Damage :

1. Any damage caused by the Supplier's person / team to Purchaser's property/person will be assessed and recovered from the Supplier. In other words, the entire responsibility in connection with any acts or deeds of Supplier's personnel/team which is detrimental to the Purchaser during the course of work will be on the Supplier's account.
2. The responsibility in respect of injury caused to Supplier's person / team or anything happened wrong during the course of work will be solely the Supplier's responsibility.
3. During the period of execution of the work / job the Supplier shall be fully responsible for any casualty, loss or damage. The Purchaser will not be responsible for any type of payment like compensation etc. to the Supplier's workers.

23.9 Equipment Fabrication:

All fabrication of equipments will be done under stage wise third party inspection (arranged by Purchaser) All bought out equipments should be offered for inspection before dispatch.

23.10 Changes :

Except in any emergency endangering life of property, no change shall be made unless authorized in writing by the Purchaser.

24. Purchaser's Right:

24.1 Risk purchase :

If the successful tenderer fails to execute the work as per order / schedule Purchaser reserves the right to procure the same from alternate sources at Supplier's risk and cost.

24.2 Cancellation:

Purchaser reserves the right to cancel the contract forthwith upon or anytime after the happening of any of the following events :

If Supplier commit a breach of any of the terms and conditions of the tender and fail to remedy such breach within specified period of the receipt of the written notice from Purchaser in regard thereto.

If Supplier does not adhere to the instructions which may be issued from time to time after mutual discussions in connection with the fabrication/ manufacture/supply/erection of the material.

Purchaser's right to so terminate the contract shall be without prejudice to any of Purchaser's right and remedies against Supplier and in the event of Purchaser so terminating the contract, Purchaser shall not be obliged to pay for any loss or compensation in respect of such termination.

25 Duplication of clause:

Whenever there is duplication of clause either in the terms and conditions or in the agreement, the clause which is beneficial to the Purchaser will be considered applicable at the time of any dispute.

26 Execution of agreement:

- 26.1 Successful bidder will be required, before undertaking the contract, to execute the agreement, with Purchaser on court stamp paper.
- 26.2 Specimen set of agreement is enclosed along with the tender document. Tenderers are advised to carefully read the same and submit with tender duly signed on all pages over the official seal, in token of acceptance of the terms and conditions thereof.
- 26.3 The person signing the tender, should produce necessary notarized power of attorney in original authorizing the signatory to act on behalf of the proprietor/ firms/company before signing the agreement. The original power of attorney will remain with the Purchaser.
- 26.4 Failure to execute the agreement within fifteen days time of issue of purchase order may render the bidder liable for forfeiture of earnest money deposit and termination of contract without prejudice to the rights of the Purchaser to recover the damages under law.
- 26.5 All terms and conditions stipulated in the tender notice, tender document, agreement and other documents furnish with the tender and related correspondence shall form part of the contract.

27 DOCUMENTS TO BE SUBMITTED

Following documents / details are required to be submitted by the tenderer: The whole Tender Document (in original) including:

- 27.1 General document dully filled in wherever applicable, signing each & every page of the document with company stamp.
- 27.2 Technical Specifications for equipment and machinery in Purchaser's specified format only, duly filled in wherever applicable signing each & every page of the document with company stamp
- 27.3 Declaration & Agreement duly filled in wherever applicable signing each & every page of the document with company stamp.
- 27.4 All the documents mentioned in the statement of credential
- 27.5 The bidder is required to submit and affidavit duly signed and notarized by authorized representative of the bidder signing the tender document, in the proforma stating that the bidder or its senior officials are not convicted by any court of law/convicted by any regulatory authority/central or state government or their undertakings/no FIR for economic/criminal offense has been lodged/that they are not black listed/convicted by central or state government or their undertakings.

28. Information Related to Project:

- 28.1 Organizational chart & division undertaking such projects for execution.

- 28.2 List of projects commissioned in last 5 years with reference list of projects, year, project value & performance certificate
- 28.3 Details of sales service department & details of technical center or R&D, laboratory facility & list of patents acquired, if any.
- 28.4 Turn over for last 3 years (Financial Year 2012-13,2013-14 and 2014-15)
- 28.5 Reference list and performance certificate of ethanol PLANTs supplied by the bidder.
- 28.6 Any other highlights of process / system.

29. Miscellaneous Provision

29.1 Inspection:

Purchaser or its Inspection Agency shall make necessary inspection of equipments, machineries, assemblies etc. at the Supplier's works/place of dispatch.

Supplier shall offer the PLANT, machinery and manufacturing activities for inspection before dispatch. The visit for inspection will be confirmed by both the parties by clear notice by giving 15 days time. If required, Supplier shall supply necessary information / drawings for the verification of the details of specification.

- 29.2 Purchaser/Inspection Agency shall be entitled to bring to the notice of Supplier, any deviation observed from the specification or standard engineering practice and the same shall be rectified by Supplier at its cost.

- 29.3 Purchaser/Inspection Agency shall have the right to give their inspection marks on items inspected by them.

29.4 Improvements & Modifications :

During the continuance of the agreement and for period of two years thereafter Supplier will undertake and agree to provide the Purchaser information and technical services including improvement and modification in respect of PLANT, process to the extent applicable and suitable in and to the said know how and technology for the use and benefit of the Purchaser upon mutually agreed terms and conditions.

29.5 Training of Purchaser's Personnel:

Supplier shall arrange to train all the personnel of Purchaser regarding the process, operation and maintenance of the PLANT being set-up under the agreement on its own cost.

29.6 Approval & Consents:

The Supplier shall provide necessary assistance and obtain the necessary approval consents, as per the statutory requirement in respect of PLANT to be supplied / erected by the Supplier. The Supplier will obtain the required approvals / consents on its own cost from concerned statutory authorities.

- 30. Time Completion: Time is the essence of Contract which will be six months from the date of agreement i.e. (DOA + 180 Days)

31 Subletting:

Supplier shall not assign or sub-let the Contract. Supplier shall not perform the Contract by sub-contract.

32.0 DECLARATION

(to be submitted on Tenderers letter head)

To
The Managing Director
UP Co-operative Sugar Factories Federation Ltd.
9-A, Rana Pratap Marg
Lucknow, Uttar Pradesh

Ref: Tender No. UPSUGARFED/ GM(A.T)/169B/2014-15/5

Date:

This has reference to your Tender Notice. Accordingly we are submitting our offer. I/We declare that I/We have gone through and carefully examined the scope of supply, terms and conditions, technical specifications and other details enclosed with this tender document. We hereby confirm that the scope of supply & the other technical details of our offer conform strictly to your technical specifications. We have enclosed all technical details, drawings & other information as required in your requisition.

Authorized signature with

Co. Rubber Stamp.

We have read and understood the above terms & conditions of this tender and hereby agree to abide by them and the same are acceptable to us.

Date:

Place:

SECTION III: TECHNICAL E-BID

- III(A) e Bid FORM**
- III(B) SCHEDULE OF REQUIREMENTS**
- III(C) TECHNICAL SPECIFICATIONS**
- III(D) CONTRACT FORM**
- III(E) PERFORMANCE STATEMENT**
- III(F) CAPABILITY STATEMENT**
- III(G) AFFIDAVIT**

SECTION III(A): e- bid FORM

e-bid Ref. No UPSUGARFED/GM(AT)/169B 2014-15/5

Date:

To:

The Managing Director,
U.P. Co-operative Sugar Factories federation Ltd,
9-A, Rana Pratap Marg Lucknow(U.P)-226001

Dear Sir,

Having examined the e-Bid Documents, we, the undersigned, offer to deliver 20 KLPD capacity anhydrous ethanol plant on turn-key basis including the activities of Engineering, Design, Manufacture, Procurement of bought out items, Supply, Erection, Commissioning, Start of commercial production and giving performance of the plant in conformity with the said e-Bid(Section II, Section IIIC and as per scope of supply) of the e-Bid Document at your factory The Kisan Sahkari Chini Mills Ltd., Distillery Unit Ghosi, Mau. In addition to this, the particulars of our organization such as legal status, details of experience and past performance, capability statement and the required e-Bid EMD for Rs. 10,00,000/- (Rs Ten Lacs) Only in the form of Demand Draft in favour of U.P.Co-operative Sugar Factories Federation Ltd, Lucknow, is furnished with this e-Bid form.

We further undertake, if our e-Bid is accepted, to deliver the aforesaid plant in accordance with the delivery schedule specified in the Schedule of Requirements (Section III (B)).

We agree to abide by this e-Bid for the e-Bid validity period specified in Clause 13.1 of the ITB and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal contract is prepared and executed, this e-Bid, together with your written acceptance thereof and your notification of award shall constitute a binding contract between us. All the terms and conditions of the e-tender Document are acceptable to us.

We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India namely "Prevention of Corruption Act 1998".

We understand that you are not bound to accept the lowest or any e-Bid you may receive.

Dated this.....day of.....20.....

Signature

(in the capacity of)

Duly authorized to sign e-Bid for and on behalf of.....

SECTION III (B) : SCHEDULE OF REQUIREMENTS

Item Code	Brief Description	Destination	Delivery Schedule	e-Bid E.M.D.
	<p>1. Supply, Erection and Commissioning (including design, preparation of engineering layout, manufacture, procurement of bought out items etc) of 20 KL per day capacity anhydrous ethanol PLANT as per specification on turnkey basis as per scope of work and specifications given in the bid document and providing skilled staff for operation and technical supervision for one year at Kisan Sahkari Chini Mills Ltd. Ghosi, Mau, Uttar Pradesh.</p>	<p>The Kisan Sahkari Chini Mills Ltd. Distillery Unit, Ghosi ,(Mau), Uttar Pradesh</p>	<p>Within 6 month from the date of agreement. (DOA + 180 Days)</p>	<p>Rs. 10,00,000/- (Rs Ten lacs only.)</p>

SECTION III (C)
TECHNICAL SPECIFICATIONS – ETHANOL PLANT

General

The specifications for a PLANT to produce 20KL/day of absolute alcohol based on molecular sieve method of dehydration starting from rectified spirit mentioned in Annexures-1 - 15. The PLANT comprises:

- i) Evaporation & superheating of the feed (Rectified Spirit)
- ii) Expulsion of water from the feed (rectified spirit) in molecular sieve beds by pressure swing adsorption technique.
- iii) Regeneration of the molecular sieve beds by using dehydrated alcohol and vacuum technique.
- iv) Recovery of alcohol from regeneration process.
- v) Condensers, coolers, heat exchangers and pumps etc.
- vi) Auxiliaries such as cooling tower, Air compressor & PLC control system, water softening PLANT etc.
- vii) Alcohol tanks (Day Tank, Receivers & Ethanol Storage Tanks)
- viii) All civil foundations building & Structural.
- ix) Requirements of Petroleum and Explosive Security Organisation (PESO) has also to be fulfilled for Ethanol storage.

Process Description

In principle moisture from 95% v/v alcohol is removed by trapping the same in molecular sieves. The bed after saturation with moisture is regenerated by vacuum and dry alcohol vapors. Water is rejected in recovery column while recurring the spent alcohol.

Waste heat recovery mechanisms shall be installed wherever possible. The vacuum for regeneration of absorber bed is created by an appropriate method. The vent losses of alcohol vapors shall be minimized by using vent absorber where water is used to absorb alcohol from vents and returned to recovery column.

PLANT Specifications

The PLANT (equipment) specifications are broadly given in Technical Specification. This is not necessarily a complete list of PLANT & machinery in the absolute alcohol PLANT. It is indicative and the Supplier shall give the complete list of machinery and equipment along with their detailed description. The PLANT and equipment quoted by the Supplier shall be complete in all respects suitable for the manufacture of absolute alcohol of proper specifications and capacity with ease and convenience, within the battery limits of PLANT defined in Technical Specification.

The equipment shall be fabricated as per the relevant codes of design and as per best engineering practicing standards. All S.S. welding shall be done in argon arc, filler rod process with proper edge preparation, etc. All welds shall be ground smooth internally. For fabrication works only IOL or Advani make electrodes shall be used.

The equipment wherever required shall be insulated. Vendor shall specify the insulation material and methods and shall be designed for an ambient temperature of Zero°C. Vendor

shall also specify the surface temperature after insulation vis-avis the ambient temperature of 0° C.

The detailed specifications of the PLANT and machinery are defined in the following Annexure.

Annexure No.	Description
1.	Design Basis
2.	Process Description
3.	Input Requirements & Specifications
4.	Outputs Generation
5.	Equipment List <ul style="list-style-type: none"> • Process PLANT • Auxiliaries - Cooling Towers, Instrument Air Compressor etc.
6.	Specifications of Pipings, Insulations and shell and tube heat exchangers.
7.	Instrumentation specifications
8.	Electrical Specifications
9.	Battery Limits
10.	Exclusions
11.	Makes of Bought out Items
12.	Performance Parameters
13.	Specifications for civil works.
14.	Finished product quality
15.	Miscellaneous

ANNEXURE-1

PROCESS DESIGN BASIS

Sr. No.	Particulars	Details
1.	PLANT capacity	20,000 LPD of Absolute Alcohol with minimum strength of 99.8 %v/v.
2.	Raw Material	Rectified Spirit – 94.68 at 15.6 ⁰ C
3.	Yield & Efficiencies :	Dehydration Efficiency 99.5 %
6.	PLANT Composition	<ul style="list-style-type: none">• MSDH based Absolute Alcohol PLANT• Cooling Towers, Instrument Air Compressor• Electrical MCC & onwards for vendors Scope Sections• PLC control system and panel

ANNEXURE 2

The process of manufacturing Absolute Alcohol from Rectified Spirit generally is as defined below. However, the actual process flow shall be confirmed by vendor albeit based on molecular sieves technology.

Rectified Spirit containing at least 95% v/v alcohol is pumped from RS feed tank to dehydration section. Rectified spirit is preheated in Feed pre heater with the help of product vapors and then fed to top tray of Evaporator Column. The objective of the Evaporator column is to evaporate rectified spirit. The evaporator Column operates under pressure. Energy is supplied to the Evaporator Column through Evaporator Column Reboiler with steam condensing on shell side.

Overhead feed alcohol vapors from the Evaporator Column are then passed through superheater where alcohol vapors are superheated. Energy for superheating is supplied by steam condensing on shell side of the super heater.

Superheated hydrous alcohol vapors are sent to 2 or 3 Adsorbent Beds. The Adsorbent Beds operate in cyclic manner. Beds are provided to allow for bed regeneration in continuous operation. While one bed is in dehydration mode, the other is in regeneration mode. Depending on feed and product specifications, dehydration-regeneration exchange takes place periodically alternating every few minutes. The feed alcohol vapors are passed through the bed under dehydration mode. The Adsorbent Bed will adsorb moisture present in feed vapors' while dehydrated product alcohol vapors are obtained as product from the bed.

Part of the dry alcohol vapors are returned to the bed for regeneration of the bed by evicting the moisture retained in the bed during dehydration cycle. The product alcohol vapors are then passed through Regeneration Preheater and Feed Preheater for heat recovery. The product alcohol vapors are then passed through product condenser where product vapors are condensed with the help of cooling water. Condensed product alcohol is collected in product receiver. The product alcohol from Product Receiver is pumped to product cooler where it is cooled with the help of cooling water and then sent for anhydrous alcohol receiver tank and then to storage.

During regeneration mode, vacuum is applied to the bed under regeneration. As mentioned earlier, a small amount of product alcohol vapors are purged through the bed in regeneration mode under high vacuum, to prepare the adsorbent for cycle changeover when this bed goes online. The purged alcohol vapors act as carrier for removal of moisture from the bed. These alcohol vapors along with moisture are obtained from the top of bed. The alcohol-water vapors (regeneration stream) are condensed in Regeneration condenser, which is attached to Vacuum Eductor.

Vacuum is pulled in the system with the help of Vacuum Eductor. Regeneration stream is used as motive fluid for Vacuum Eductor. The regeneration stream coming from the Regeneration Condenser is pumped, preheated in Regeneration Preheater and fed to the Evaporator Column for recovery of alcohol. Moisture present in feed alcohol is removed from the bottom of the Evaporator Column in the form of spent lees.

After one cycle is over, the beds are interchanged, that is, the bed on dehydration mode will be switched over to regeneration mode and the bed on regeneration mode will be switched over to dehydration mode, with the help of automation system.

ANNEXURE- 3

INPUT REQUIREMENTS AND SPECIFICATIONS INPUT REQUIREMENTS

1)	Raw Material :	Industrial alcohol	
2)	Steam Consumption (Dry, saturated):		
	R.S. to A.A.	Max 0.6 kg per litre of A.A. at 3.5 kg/cm ²	
3)	Process Water	As per requirement of softening PLANT	
4)	Cooling Water Heat Duty for:		
	MSDH	As required for the process	
5)	Soft Water for Cooling water Make up max.	* 2.0 Ltr/Ltr cl Absolute Alcohol products	
6).	Sodium Hydroxide	N/A	
7)	Yeast		
8).	Power requirement in Process PLANT and its auxiliaries (Approximate) (exact figures shall be confirmed by vendor)	Operating (KW)	Connected (KW)
	MSDH	45.0	70.0
	Auxiliaries : Cooling towers & Instrument Air Compressor & DG pump set	20.00	30.00
		25.00	40.00

F) RAW MATERIAL SPECIFICATION:

Sr. No.	Parameter	Unit	Value
1.	Specific gravity at 15.6 deg. C. max.	--	0.8171
2.	Ethanol content, % v/v at 15.6 deg.C. min	% v/v	94.68
3.	Miscibility with water	-	Miscible
4.	Alkalinity	-	Nil
5.	Acidity, as Acetic acid	ppm	20
6.	Residue on evaporation	ppm	50
7.	Aldehydes, as Acetaldehyde	ppm	— 60
8.	Esters, as Ethyl acetate	ppm	— 200
9.	Copper, as Cu	ppm	— 1
10.	Lead, as Pb	ppm	— 1
11.	Methanol	ppm	To satisfy the test
12.	Fuse Oil	ppm	Do
13.	furfural	ppm	Do

E) Utility Specifications:

Steam:-

Dry Saturated steam at 3.5 kg/cm² (g).

(i) **Electricity:** Electric supply should 415 V, 3-phase, 4-wire, 50 cycles.

(ii) **Water Specification :**

- Soft water (Cooling tower make up, Dilution water, Alcohol scrubber water, vacuum pump sealing) table

Sr. No.	Parameter	Unit	Value
1.	PH	-	6-9
2.	Chloride (Cl-) (expressed as NaCl)	mg/lit	<250
3.	Residual free chlorine	mg/lit	<1
4.	Silica (SiO ₂)	mg/lit	<75
5.	Total Hardness (Expressed as CaCO ₃)	mg/lit	<5
6.	Turbidity	NTU	<10
7.	Total Dissolved Solids	Mg/lit	<550
8	H ₂ S	Mg/lit	NIL

Annexure-4

OUTPUT GENERATION

S. No.	Parameters	Values
1.	PLANT Capacity	20,000 LPD of Absolute Alcohol with minimum strength of 99.8% v/v
2.	Cooling Tower Blow down	----
3.	Spent lees generation	52 Ltrs./hr.

PRODUCT GENERATION:

ABSOLUTE ALCOHOL (AA) AS PER IS 15464 OF 2004 / IS 4564

Sr. No.	Parameter	Unit	Value
1.	Relative Density, maximum	% v/v	0.7961
2.	Ethanol content % v/v	ppm	99.8% V)
3.	Miscibility with water	ppm	Miscible
4.	Alkalinity	ppm	Nil
5.	Acidity (CH ₃ COOH), maximum	ppm	20
6.	Residue on evaporation, maximum	ppm	50
7.	Aldehyde, maximum	ppm	60
8.	Copper, maximum	ppm	1
9.	Methyl Alcohol, maximum	ppm	300 To satisfy test
10,	Fusel oil	ppm	To satisfy test
11.	Product shall be clear bright and free from suspended matters		

Annexure 5

SCOPE OF WORK (EQUIPMENT LIST)

MSDH SECTION –

Sr. No.	Description	Specifications	Quantity	Qty.
1.	Sieve Bed With Packing and Internals	Cylindrical Shell with Mol Sieve	AISI 304	2/3
2.	Evaporation Column	Tray Type : Sieve	AISI 304	.1
3.	Evaporation Column Reboiler	Shell & Tube	AISI 304	1
4.	Feed Preheater	Type-Shell & Tube	AISI 304	1
5.	Regeneration Preheater	Type-Shell & Tube	AISI 304	1
6.	Product Condenser	Type-Shell & Tube	AISI 304	1
7.	Product Cooler	Type-Shell & Tube	AISI 304	1
8.	Regeneration Condenser	Type-Shell & Tube	AISI 304	1
9.	Regeneration Cooler	Type-PHE <i>JAM I t'u-l t</i>	AISI 304	1
10.	Superheater	Tvnfi-Shell & Tuhfi	AISI 304	1
11.	Regeneration receiver		AISI 304	1
12.	Product receiver		AISI 304	1
13.	Vacuum Eductor	Standard	AISI 304	1
14.	Feed Pump	Type-Centrifugal Wetted parts CF8	Wetted Parts CF8	1+1
15.	Regeneration Pump	Type-Centrifugal Wetted parts CF8	Wetted Parts CF8	1+1
16.	Product Pump	Type-Centrifugal Wetted parts CF8	Wetted Parts CF8	1+1
17.	Filters		CS	3
18.	Piping, Electrical & Instrumentation		Standard	Lot
19.	Transfer pump	Type-Centrifugal Wetted parts CF8	Wetted Parts CF8	1+1

AUXILIARIES:

Sr. No.	Equipment Description	Specifications	Qty. (Nos.)
1.	Cooling tower MSDH PLANT	MOC - Wooden	1
2.	CW Recirculation pumps for Cooling tower	Type-Centrifugal MOC-CI	1+1
3.	Instrument air compressor with dryer	CI	1+1
4.	Piping, Valves	As per Annexure	Lot
5.	Instrumentation	As per Annexure	Lot
6.	Electrical	As per Annexure	Lot
7	Alcohol Tanks 400 KL	MOC M.S.	2 Nos
7A	Day Tank Capacity 30000Ltrs	MOC M.S .dia and height to specified	1Nos.
7B	Receiver Tanks Capacity 25000Ltr.	MOC M.S .dia and height to specified	2Nos.
7C	Storage Tanks for Ethanol Capacity 4.0 lac Ltrs with condenser	MOC M.S. dia and height to specified	2Nos.
8	MCC & PLC Room with Air Conditioning		1No.s
9	Process PLANT building, structure	6m x 6m x 30m.ht R.C.C structure building. R.C.C. footing with steel	Dimensions are tentative actual size to be specified by the Supplier

		truss and columns with color coated sheet roofs	
10	Process PLANT foundation and storage tank foundation	As per requirement	
11	Receiver and storage building	25m x 12m , 2.5m .ht 230mm thick brick wall topped with chain link fencing enclosure. Receiver building must be with steel truss and color coated sheets roofs.	Dimensions are tentative actual size to be specified by the Supplier
12	Cooling tower basin	As per requirement	
13	PLANT and yard lighting	Do	
14	Water softening PLANT	8m ³ / hr. or 150m ³ / charge	

Note: The Cooling Tower is assumed to be at a Maximum distance of 16 meter from the respective Process Sections for tendering purpose.

Annexure-6

SPECIFICATIONS OF PIPING, FITTING & INSULATIONS

1	Pipes and Fitting Material				
		Carbon Steel / Mild Steel		Stainless Steel (AISI 304)	
Items	Size	Thickness	Material of	Thickness	Material of
(particulars)	NPS	Raring	Construction	Raring	Construction
Pipes	>15< 150	MS "B" , "C" class	IS 2062	Sch5S	A312TP304
	>200<3 50	4.8MM THIK	IS 3589	Sch5S	A358Gr304
	>400<5 00 >550<1 200	4.8MM THIK 6.0 MM THIK	IS 3589	4 - 8 MM THIK	A 240 Gr 304
Fittings	>15< 150	Sch40			
	>200<6 00	Sch20	A234 Gr WPB	Sch5S	AISI 304
	>650<1 200	Sch 10			
Flanges	>15<50 0	#150/B16.5	IS 2062 GR A	#150/B16.5	IS 2062 GR A with Stub End
	>550<6 00 >650<1 200	#150 / B16.5 #75/B16.47	IS 2062 GR A	#150/B 16.5 #75/B16.47	AISI 304 Liner Spool
Blind Flanges	15	#150/B16.5	IS 2062 GR A	#150	AISI 304
	>25<60 0 >650<1200	#150/B16.5 #75/B16.47	IS 2062 GR A	#150 #75	IS 2062 GR A WITH AISI 304 LINER
Gasket	All Sizes	As per process & service requirement			
		Carbon Steel / Mild Steel		Stainless Steel (AISI 304 / 316)	
Bolts	All Sizes	IS 1367 GR 4.6 (MACHINED)			
Nuts	All Sizes	IS 1367 GR 4.8 (HEX NUT)			
Insulation					

Material	All Sizes	Rock wool density (100 kg/M3)- Mattresses (25 mm/40 mm Thk.)
Insulation		
Cladding	All Sizes	Up to 150NB - 26 SWG Aluminum Cladding 13/8 GI Screw
		200 NB and above - 24 SWG Aluminum Cladding 13/8 GI Screw

Note – All piping, fitting joints will be butt welded

Design basis of shell & tube heat exchangers.

All shell and tube heat exchanger shall be made as per ASME section VIII Div I / tube sheet as per TEMA class "C"	MOC SS AISI 304
Minimum shell thickness	3mm MOC SS AISI 304
Minimum tube sheet thickness	17mm MOC SS AISI 304
Tube wall thickness minimum for Reboiler	16SWG MOC SS AISI 304
Do- for condensers and coolers	18SWG MOC SS AISI 304

DETAILS OF INSTRUMENTATION SPECIFICATION & CONTROL SYSTEM**Instrumentation**

Instrument list given below is only indicative and Supplier has to specify actual requirement.

- Flow meter

Sr. No.	Particulars	Type	Make
1.	R.S feed to recovery column	Specify	Rosemont/ J.N.
2.	Absolute alcohol draw	Specify	Marshall
3.	Reflux to alcohol recovery column	Specify	
4.	Feed flow control system	Specify	
5.	Steam flow control system	Specify	
6.	Electronic steam flow meter with indicator & integrator	Specify	
7.	Electronic flow meters with totalizer for alcohol	Specify	
8.	Pressure swing adsorption control system	Specify	
9.	PLC control system of the total PLANT		
10.	Temperatures indicators- (distillation columns, super heater, condensers molecular sieves towers and cooling water system)	*as per list	
11.	Pressure gauges- pressure controllers on distillation column, molecular sieves towers, steam supply, process pumps etc.	*as per list	
12.	Level indicators and level control loops of distillation columns, condensate drums, etc.	Specify	
13.	Any other instruments such as hydrometer and safe and tester etc	Specify	

Note: All instruments will both local and panel mounted are to be hooked into PLC system with mimicry diagrams.

• **Temperature indicators :**

Sr.No.	Particulars	Type	Make
1.	Alcohol recovery column bottom	Dial thermometers	Radix/Radicon/
2.	Alcohol recovery column top	(mercury filled type for	J.N. Marshall
3.	Alcohol feed to recovery column	local and sensing and	
4.	Regenerated alcohol feed to recovery column	transmission system for PLC system	
5.	Alcohol superheater		
6.	Dehydration towers		
7.	Cooling water supply header		
8.	Cooling water outlet from condensers		
9.	Cooling water outlet from dehydration column – vent condenser		
10.	Product cooler		
11.	Steam		
12.	Others	Specify	
13.	Eight point scanner	Specify	
14.	Temp. Control loop for columns, mol sieve towers, etc.	RTD	

- **Pressure Gauges**

S. No.	Particulars	Type	Make
1.	Dehydration tonnes, alcohol recovery column, Vacuum system	Specify	H. Guru/ Feibig
2.	Product cooler	Specify	
3.	On all process pumps	Specify	
4.	Cooling water recirculation pump	Specify	
5.	Steam line to all Reboiler	Specify	
6.	Steam header	Specify	
7.	Others	Specify	

- **Level Instruments**

S. No.	Particulars	Type	Make
1.	Level control loops for a. Regenerate holding tank b. Alcohol feed tank c. Alcohol recovery column bottom	Specify Specify Specify	Specify
2.	Level switch on cooling water (for low water alarm)	Specify	Specify

- **Other Instruments**

S. No.	Particulars	Type	Make
1.	Pressure switch on steam line (for low steam pressure alarm)	Specify	Specify
2.	Hydrometer	Specify	
3.	Safe & Tester	Specify	
4.	Instrument panel	Specify	

Specify all the control loops in detail.

If RTD is used instead of dial thermometers, local indication should be provided.

PLC based Instrumentation mainly includes following sections with respect to battery limit is as below -

- MSDH

PLC BASED CONTROL SYSTEM:

Various process parameters like Pressure, Temperature, Level, Flow etc. are sensed by the transmitters. The transmitters will send the proportional signal to the Programmable Logic Controller (PLC). These signals are wired to the Input Channels of the PLC. PLC is interfaced with computer through a special data cable. PC will access all the data in the PLC and display it in the user-friendly SCADA (Supervisory Control and Data Acquisition) software. The outputs from the PLC derived from the control loops are wired to the respective control valves. The following block diagram shows the schematic sketch of the overall system

Annexure - 8

DETAILS OF ELECTRICAL SPECIFICATION

MOTOR CONTROL CENTER (MCC) & Cabling Up to Motors:

MCCs shall be made from MS Powder coated. MCCs shall be non-draw out type, compartmentalized, "safe area" type, with SFU system.

MCCs shall be floor mounting, suitable for indoor installation and dust and vermin-proof.

MCCs shall be weather-proof suitable for indoor installation with IP42 degree of protection.

Cable entry shall be from the bottom as a standard feature. Top cable entry may be provided, if reqd. Each starter of MCC will consist of:

1. SFU
2. Overload Relay
3. ON / Tripped indication
4. Emergency stop stay-put type push button.

For motors up to & including 15 kW, DOL starters shall be provided. For motors above 15 kW, Star Delta Starter shall be provided. For motors above 15 kW, CT will be provided in Y-phase with analogue Ammeter to read the starting and load current.

For motors including & above 160 kW Electronic Soft Starters shall be provided. Incomer of MCC will be:

1. MCCB for rating up to & including 630 A.
2. ACB for rating including and above 631 A.

Selection of all components will be based on manufacturers selection chart only. The Incomer of the MCC panel shall have digital kW, KWh meters (Class : 1.0) Analogue Ammeter, Voltmeter (Class 1.0). ON and Tripped indicating lamps shall be provided for all feeders.

INTERNAL POWER WIRING:

AN the power wiring will be carried out by using multi-strand Copper conductor, PVC insulated wires.

Cable sizes will be as follows:

For DOL Starter:

Motor Rating	Up to 5.5 kW	7.5 kW	9.3 Kw	11 kW	15 kW
Cable Size	2.5 sq. mm	4.0 sq. mm	4.0 sq. mm	6.0 sq. mm	10 sq. mm

For Star-Delta Starter:

Motor rating	18.5 kW	22 kW	30 kW	45 kW	10 sq. mm
Cable size [supply side]	10 sq. mm	16 sq. mm	25 sq. mm	50 sq. mm	
Cable size [motor side]	4.0 sq. mm	6.0 sq. mm	10 sq. mm	25 sq. mm	

The cable sizes mentioned above are indicative and may change during detail engineering depending on Type of Starter.

POWER AND CONTROL CABLES:

Individual motors will be connected to MCC by 690/1100 V grade, PVC insulated and PVC sheathed cables.

Cable sizes for respective motor rating will be as follows :

Motor Ratings	Cable Size	MOC
up to 1.5 Kw	3 core x 2.5 sq. mm	Copper
above 1.5 kW & up to 5.5 kW	3corex4sq. mm	Aluminum
above 5.5 kW& up to 11 kW	3 core x 6 sq. mm	Aluminum
15 kW	3 corex 10 sq. mm	Aluminum
from 18.5 kW & up to & including 22 kW	2 Runs x 3 core x 16 sq. mm	Aluminum
30 kW	2 Runs x 3 core x 25 sq. mm	Aluminum
including & above 45 kW & up to 55 kW	2 Runs x 3 core x 50 sq. mm	Aluminum
including & above 75 kW & up to 90 kW	2 Runs x 3 core x 70 sq. mm	Aluminum
110 kW	2 Runs x 3 core x 95 sq. mm	Aluminum
Control cable for push-button station	4 core x 1.5 sq. mm	Copper

The cable sizes mentioned above are indicative and may change during detail engineering depending on Type of Starter.

EARTHING:

Earthing pits using GI rod/ plate. GI Earthing will be done for all electrical equipment & non-current carrying metallic structures / tanks. GI will be used for lightning protection, connected directly to separate earth pit(s).

PUSH BUTTON STATION:

Push button station will be provided near the motor(s) wherever required. Flameproof push button station (as per IS 2148) will be provided for hazardous area/ section and weatherproof push button station will be provided for "Safe" area/section.

CABLE TRAYS:

MS powder coated cable trays are considered for indoor application. Cables will be on Pipe Racks for outdoor areas

Scope of Electrical Work for Absolute Alcohol PLANT & Tankfarm	
Complete electrification of PLANT including design, manufacture, procure, supply, erection, testing & commissioning of MCC, electrical motors, all flameproof equipments, power cables, control cables, instrument cables, lightning arrestor, cable trays, local push button stations for each & every pump, blower, vacuum pump, agitator etc., lighting of all sections of PLANT including light fittings, earthing pits etc. It also includes cable laying, earthing of motors, MCC, push button stations etc. In MCC, 5 No. vacant compartments suitable for 2 to 25 HP starters shall be provided	Specify details

Annexure - 9

BATTERY LIMITS

1.	Rectified Spirit	At the inlet of Rectified Spirit Day Tank at the MSDH PLANT.
2.	Electricity	At the incomer of individual MCC
3.	Chemicals, Additives & CIP Solution	Into the respective dosing tanks / CIP tank.
4.	Steam	At the inlet flange of steam header in distillation & MSDH section @ 3.5 kg/cm ² (g)
5.	Process water	At the inlet of softening PLANT
6.	Spent lease	At the inlet of nearest drain
7.	Vents	At the Outlet flange of respective vent point of equipment/ piping.
8.	Drains	At the inlet of respective equipment nearest gutter.
9.	Cooling tower blow down	At the outlet of Cooling Tower Basin
10.	Steam condensate	At the outlet of steam condensate transfer pump.
11.	Anhydrous Ethanol	Upto the storage tanks

ANNEXURE-10
EXCLUSIONS FROM VENDOR'S SCOPE OF WORK

1. Electrical:

- a) All the inlet MCC of the section.

2. Others:

- a) Boiler, HP piping, PRS/PRDS, LP Steam distribution, piping up to battery limit
- b) Boiler Fuel, ash storage and handling etc.
- c) DG Fuel storage and handling & fire fighting system.
- d) Molasses unloading pit
- e) Yard Piping other than Vendor's scope of work.
- f) Transportation & Storage of Raw materials, spare parts, consumables lubricating oils, chemicals as per Battery Limits.
- g) Supply of adequate power on payment and water free of cost throughout the work of installation, erection and commissioning of the PLANT and machinery will be provided by the Purchaser.
- h) Storage go-downs & security facility for the equipment supplied by Vendor, at Site, during entire execution of the project will be by client.
- i) Any other items / activity, not specifically mentioned in Vendor's scope of work and in equipment list, subject to the totality of the PLANT for continuous operation.

Annexure -11

MAKES OF BOUGHTOUT ITEMS

Sr.No.	Items	Makes
1	Air Blowers/ Vaccum Pumps	PPJ. System / TMVT Industries / Blowers
2	Centrifugal Pumps- Process	Micro finish Pumps / Flow serve / KSB Pumps /Kirloskar Brothers/ Akay Industries
3	Centrifugal Pumps- Water	Mather & Platt / Kirloskar Brothers / KSB Pumps
4	Plate heat exchangers	Tranter India / Sondex / Gea Ecoflex/Alfa Laval
5	Vaccum Eductor	Schutte Koerting / Mazda
6	Molecular sieves	CECA / Zeochem
7	PD type flow meter	Teltech
8	Cooling Towers	Paharpur/ Mihir Engineering / Shreeram Hamon
9	Diesel operated pump for emergency cooling system	Kirloskar / Mather & Platt/ KSB
10	Air Compressors	Chicago Pneumatics/ Atlas Capo
11	Electrical Motors	Crompton/ Bharat Bijlee/ ABB/ Laxmi Hydraulics / Siemens
12	Electrical cables	Gemscab/ Polycab
13	Electrical Switchgears	Schneider/Siemens/ L&T/ ABB
14	Programmable Logic Controller (PLC)	Allen Bradley /Siemens / GE Fanuc/ ABB/ Schneider
15	Local Panel	Local approved makes
16	Instrumentation cables	Icon cables/Thermopads/Polycab/Gemscab
17	Globe Control Valves	Samson / Forbes Marshall -Area/ Dembla
18	Butterfly Control Valve- MSDH HPBV	Metso Automation / Bray Controls Tyco/ Key Stone
19	Butterfly control / On-off Valve	Delval Flow Controls/Bray Controls/ V.K.Valves / Tianjin Yinhe Tyco/ Key Stone
20	Rotameter (Glass Tube)	Eureka/ Scientific Devices
21	D.P. Flow Transmitter	Siemens/ Yokogawa/ Emerson
22	Magnetic Flow Meter	E&H/ Yokogawa/ Emerson (Rosemount)
23	Vortex Flow Meter	E&H/ Yokogawa/ Emerson (Rosemount)
24	D.P. Type Level Transmitter	Siemens/ Yokogawa/ Emerson
25	RTD with Temp. Transmitter	Bellofram/Waree/ Pyro
26	Temperature Gauge	Goa Thermostatic/ Waree
27	Pressure Transmitter	Siemens/ Yokogawa/ Emerson
28	Pressure Gauge	Goa Thermostatic/ Waree
29	Manual ball valves	Aqua control /Flowjet valves/ Unison
30	Manual butterfly valves	Tianjin Yinhe / Delval Flow Controls
31	Gate/ Globe/check valves	Flowjet valves/ ZG Valves / Kaigong Valves / Metflow / Expert Engineering
32	Safety Valves	Fainger Lasser / Fainger Engineering
33	NRV	Omkar Valves / Hawa Valves
34	Water softening PLANT	Ion exchange / equivalent

Annexure –12

Performance Parameters and Guarantees

All the PLANT and machinery and its accessories should be guaranteed for a period of 12 months from the date of commissioning for material, workmanship & performance.

PLANT & machinery and its accessories should be of first class quality as per standard specifications. Any material found defective during the Guarantee period shall be replaced by the Supplier free of cost.

1 Process performance guarantee:

Guarantee for Absolute Alcohol PLANT shall be as per following parameters:

- | | | |
|-----|---|---|
| 1.1 | Capacity | 20000KL Anhydrous Ethanol |
| 1.2 | Raw material consumption
(at strength of 94.68%) | 1055KL/KL of Anhydrous Ethanol |
| 1.3 | Utility consumption- | |
| | g. Steam | 0.6kg/Ltr Anhydrous Ethanol |
| | ii. Water | 2.5Ltr/Ltr Anhydrous Ethanol |
| | iii. Power (including cooling tower) | 0.05KWh Anhydrous Ethanol |
| 1.4 | Finished product quality- | Alcohol content min. 99.8%, other parameter as per IS 15464 of 2004 for absolute alcohol. |
| 1.5 | Water balance | |
| 1.6 | Performance of bought out items. | |

The above performance parameters should be achieved on every day of seven consecutive full working days for each equipment / unit. This should be fulfilled within not less than two months from start of the PLANT operation after successful commissioning.

The make of the main units to be supplied by the Supplier to the Purchaser shall be any one of the makes specified by the Purchaser.

Capacity, efficiency & yield Absolute Alcohol (based on R.S. to A.A.)

- | | | | |
|----|-----------------------------------|---|------------------------|
| 1. | Capacity | : | |
| | Absolute Alcohol | : | 20 KLPD |
| 2. | Overall efficiency (min) | : | 99.5% |
| 3. | Water content in absolute alcohol | : | Not more than 0.2% v/v |

The above said process performance parameters should be achieved on every of seven consecutive full working days for each unit.

Annexure –13

Specification civil work

1. Wind and soil test to be considered, for making of offer the bidder should considered the load bearing data .
2. All design will be as per ISI specification and UPPWD norms/ specifications and drawings are to be approved by the Federation/electrical inspectorate/safety inspector's weights and measurement inspectorate etc. The approval has to be taken by Supplier.
3. The plinth level of distillery building will be at min 0.5mtr from ground level and it is built by brick masonry. For ground floor flooring of M10 grade (CC1:3:6) as a base concrete is to be made and it's IPS shall be 75 mm of M15 grade (CC1:2:4)
4. Receivers tanks will have to in structure of which roof should be covered in colored pre-coated minimum 0.6mm thick sheets & side walls of structure should be constructed in brick masonry up to 2.5 m height and above brick masonry wall standard chain link fencing up to roof should be provided. The brick masonry will be in the ratio of 1:4 with 1 cement and four fine sand of F.M of 1.25.
5. Tanker loading platform outside of the storage tank with M15 grade (CC 1:2:4)
6. Bulk storage tank will have dyke wall with 2.50 m height brick wall and 1.25m height chain link fencing with lock and key arrangement and working platform around the tank minimum 1.25 space at plinth with brick work and 75mm thick floor m15 at top of platform.
7. Building painting- oil bound distemper insider the cement colors (snowcem) outside.
8. Cooling tower basin will be provided in RCC in ratio of 1:1.5 :3 or as per approved design and drawing.
9. MCC room & PLC room inside the structural building.
10. Earthing pits will be provided as per standard electrical engineering practice.

All water retaining structures like water tank, cooling tower etc will be in RCC M20 grade concrete.

All Cement will be of 43 Grade OPC of any IS Approved make.

All the Foundation Bolts will be of EN-8 quality.

Outside gutters up to end of each section will be provided in Brick works as per requirement at Site, total length is as per endorsed layout.

11. All brick works will be of first class brick M15 grade.

STRUCTURAL WORK

1. Wind and soil test to be considered.
2. Staircase- M.S (grating) staircase of 1m wide 8''x12'' riser and treat with a landing at every 3m maximums and rails will be provided on both side thus two staircases to be provided up to top of distillery building. The staircases have to be inside the building.
3. Operating floors of the distillation building will be covered with MS grating plate and each floor height should be minimum 5m/6m and other floors with MS grating for case of operation and supervision.
4. Color pre-coated sheets of IS standard for structural work of minimum thickness 0.6mm should cover roofing on both sides.

5. Side lowering in all sides of distillation. Cladding for First floor other floors keep open, roofing and purlins to be size 160x50x5mm/ 125x65x6mm depending upon span.
6. All structure work to be cleaned & painted by one coat primer and two coat first grade synthetic enamel.
7. Portal columns, roof trusses, purlins, rafters, runners shall be fabricated as per approved drawing.
8. Testing of different materials as per procedure laid in relevant up to date IS standard shall be carried out at the cost of Supplier as and when instructed by the factory/ Federation, Alternatively the Supplier should maintain a laboratory for testing of bricks, sand, R.C.C. etc at the Site if necessary.
9. The reinforced steel will be of type F.E 500TMT bars and quality of structural steel confirmed to IS 2062.
10. All the foundation Bolts will be of EN- 8 quality.
11. The layout will take into account the working space and safety requirement of factory inspectorate.

Annexure-14

Finished product quality. The product shall conform to the specification for ABSOLUTE ALCOHOL (AA) AS PER IS 15464 OF 2004 / IS 4564

Sr. No.	Parameter	Unit	Value
1.	Relative Density, maximum	% v/v	0.7961
2.	Ethanol content % v/v	ppm	99.8% V)
3.	Miscibility with water	ppm	Miscible
4.	Alkalinity	ppm	Nil
5.	Acidity (CH ₃ COOH), maximum	ppm	20
6.	Residue on evaporation, maximum	ppm	50
7.	Aldehyde, maximum	ppm	60
8.	Copper, maximum	ppm	1
9.	Methyl Alcohol, maximum	ppm	300
10,	Fusel oil	ppm	To satisfy test
11.	Product shall be clear bright and free from suspended matters		

Raw material consumption:

1. R.S. required-(98%v/v) (94.68% at 15.6°C) :1.055 Lit/Lit. of absolute alcohol
2. Minimum strength of A.A : Min. 99.8%

Utilities Consumption

Steam consumption	:	0.6 Kg of steam/ Ltr of absolute alcohol and 500 Kg/hr for 20 KLPD PLANT
Electricity consumption	:	50.0 Kwh/KL of absolute alcohol.
Cooling water circulation rate:		M ³ /hr.
Spentlees	:	0.06M ³ /KL absolute alcohol

Annexure-15

MISCELANEOUS

Insulation & Painting:

Insulation & painting for distillation section	
<p>Insulation :</p> <p>Insulation for distillation columns & other related equipments & piping like steam chest, hot water, etc.</p> <p>Painting :</p> <p>Painting as per the relevant code to all MS equipments, CS piping, supports etc.</p>	<p>To be provided as per IS specifications for hot insulation.</p>

SECTION III(D) AGREEMENT

“THIS AGREEMENT” is made at on between The Kisan Sahkari Chini mills Ltd. Distillery Unit Ghosi distt. Mau, Uttar Pradesh (a society registered under the U.P. Co-operative Societies Act 1965) hereinafter referred to as the Purchaser, which expression shall unless repugnant to the subject or context includes their legal representatives, administrators, successors represented by Shri General Manager of the one part

AND

M/s..... a Company registered under the Companies Act, 1956 having its registered office at.....(hereinafter referred to as the Supplier) which expression shall, unless repugnant to the subject or context including their legal representatives, administrators, successors represented by of other part.

1.0 WHEREAS

- 1.1 The Supplier has for many years engaged in and has got vast experience in the manufacture, supply, erection, commissioning and supervision of absolute MSDH technology based Absolute Alcohol PLANTs.
- 1.2 The Supplier has acquired and is in possession of, know-how relating to the designing, engineering, fabrication, erection, commissioning and operating of Absolute Alcohol PLANT.
- 1.3 The Purchaser is desirous of acquiring/establishing the Absolute Alcohol Plant. The Purchaser have floated tender giving the specifications of the PLANT and machinery and after receiving the tenders from all the parties, the same have been approved in the tender Committee meeting held on..... to design, procure, manufacture, supply, erect and commission, the PLANT for achievement of guaranteed performance as agreed in the tender Committee meeting held onThe Purchaser and Supplier have agreed to the terms and conditions appearing hereinafter and the Supplier has agreed to supply, erect and commission the PLANTs and machinery as per the specifications enlisted in the Technical Specification annexed to this Agreement.
- 1.4 The Contract Price hereinafter mentioned is based on the Suppliers undertaking to make ready for the commercial use of Absolute Alcohol PLANT as per requirement within 6 months from the effective date of this agreement i.e. Date of Agreement + 180 days .TIME IS THE ESSENCE OF THE CONTRACT.
- 1.5 In the event of failure to complete the PLANT within stipulated period, the Supplier shall pay penalty to the Purchaser as per provisions of this agreement.

2.0 Definition

- 2.1 "Site" shall mean the location at Kisan Sahakari Chini Mills Ltd. Ghosi, Mau,
- 2.2 "PLANT" shall mean the complete machinery and equipments as specified in Technical Specification forming part of this agreement and include the commercial PLANT to be designed, procured, constructed, manufactured, supplied, erected, commissioned and supervised by the Suppliers having an initial design, capacity for Absolute Alcohol Plant with guaranteed performance to this Agreement.
- 2.3 "Technical know-how and information" shall mean and include all technical facts, physical data in which the know-how, drawing and documents which the Supplier employed in the ordinary course relating to the construction, erection and operation of the said PLANTS material used therein procedures and techniques used in the PLANTS owned by the Supplier and repairs and maintenance manual shall be supplied to the Purchaser.
- 2.4 "The Supplier" shall mean M/s.....who will carry out design, detailed engineering, fabrication, supervision of erection and commissioning of the PLANT, as stated in the tender document annexed to this Agreement.
- 2.5 "The Battery Limits" shall mean the area of PLANT as specified in tender document annexed to this Agreement.
- 2.6 ABSOLUTE ALCOHOL” shall mean Anhydrous Ethanol.
- 2.7 The Effective Date means the date of signing the agreement .
- 2.8 Time Completion: Time is the essence of Contract which will be six months from the date of agreement i.e. (DOA + 180 Days)
- 2.9 “Contract Price” means Rupees as offered by Supplier and accepted by Purchaser as defined in Section II clause 1of Contions of E-Tender /Contract (CC).
- 2.10 Commercial production:- Means actual production of Ethanol which conform to all the norms as per IS standard for fuel grade Ethanol and is fit for sale to Oil companies
- 2.11 Successful Performance:- Plant will be treated to have given successful performance if after start of commercial production the runs successfully for 12 months achieving all process norms including quality of produce, capacity, consumption of utilities, material workman ship, performance of equipments and machineries as per clause 4 of the agreement.

3.0 Scope of Supply & Services of Suppliers

3.1 Absolute Alcohol PLANT:-

The Suppliers shall design, procure, fabricate supply, erect, commission the complete new absolute alcohol PLANT as per requirement detailed in the tender document annexed to and forming part of this agreement conforming to the specifications. The progressive delivery and erection schedules to be drawn up by the Supplier, duly approved by the Purchaser, and their authorized Inspection Agency, so that the PLANT shall be ready for commissioning and commercial

production within the time provided in this agreement. The capacity and efficiency & yield of the PLANT shall be as per tender document annexed. The PLANT and other equipments shall operate to achieve the requirements of the specifications of process parameters guaranteed by the Supplier.

3.2 The Supplier's Scope of Work:

- 3.2.1 Supply, Erection and Commissioning (including design, preparation of engineering layout, manufacture, procurement of bought out items etc) of 20 KL per day capacity anhydrous ethanol Plant on turn key basis as per specifications given in the bid document at The Kisan Sahkari Chini Mills Ltd. Distillery Unit Ghosi, Mau.
- 3.2.2 The PLANT and machinery, equipments, instruments etc, shall be quoted as per the technical specifications given in Technical specification section and as per the battery limits specified therein and shall be guaranteed to achieve the parameters given in the performance guarantee clause.
- 3.2.3 The capacity, efficiency & performance of the said PLANTS for production of Anhydrous Ethanol should be guaranteed as per parameters, given in the performance guarantee clause.
- 3.2.4 The work is to be executed as per the terms & Conditions stipulated in this invitation and also in the draft agreement.
- 3.2.5 The scope of work includes design, detail engineering, Fabrications of necessary equipments, Tanks etc., Procurement of bought out items supply, Erection and commissioning, Construction of building, structurals, roofing, Painting etc. (as per section III-C technical specifications) to meet with the requirements complete with the packing & forwarding charges, transit cum storage cum erection insurance, custom duties, excise duties, sales tax & other government levies, if any erection, supervision and commissioning charges. This also includes other tools & tackles required for the fabrication at site adequate manpower, quite conversant to the fabrication & erection work of such PLANT and machinery. All civil works, foundation, land scaping etc are included in the scope of the tender. It also includes PLANT and yard lighting.
- 3.2.6 All foundation bolts, foundation wedges, foundation packing, liners etc are also to be included in the scope of supply.
- 3.2.7 After the finalization of the order, the Supplier has to prepare all the foundation and other civil drawing & all the detailed fabrication drawings of each and every part of PLANT & machinery, piping layout drawing, isometric drawing, equipment layout drawing, elevation drawing to be approved from Purchaser by appointing a competent person/ agency as well as by concerned Govt Authority and shall be submitted well in advance to Purchaser & Purchaser's agency for prior examination & approval thereof. The Supplier shall also arrange to get the drawing approved from U.P State Excise department. However, the application and other required legal formalities shall be completed by the Purchaser.
- 3.2.8 All the consumables required for erection & Commissioning like gas, all types of welding/ brazing or soldering rods, emery papers, grinding paste, hold tight graphite, Kerosene Oil, Rustoberg, back joints, steam packing's etc. are also to be included in the supply. Only IOL or Advani make electrodes shall be used for fabrication works.
- 3.2.9 All types of tools & tackles like hoisting tools, chain blocks, pulleys, wire ropes hooks etc. to be arranged by Supplier. All special tools required are also to be

arranged by the Supplier . All staff including engineers, technicians, skilled, unskilled workers, khalasi required for loading/ unloading, fabrication erection etc. should be arranged by Supplier. The machinery & other equipments arrived at Site should be properly stored at site. The transportation of machinery and equipments from the stored place to their respective position shall also be arranged by the Supplier.

- 3.2.10 **Requirements of Petroleum and Explosive Security Organisation (PESO) has also to be fulfilled for Ethanol storage.**
- 3.2.11 Technical services : The technical services shall include.
- 3.2.12 Project In charge: Supplier will provide a qualified & experienced project engineer/ manager to supervise the installation & erection of the PLANT who will be stationed at Site.
- 3.2.13 Training of the Purchaser's personnel: Supplier shall arrange to train the Purchaser's personnel regarding the process operation & maintenance of the PLANT on its own cost if any.
- 3.2.14 Startup services: Supplier will provide qualified staff for start up of PLANT, trial run and performance period.
- 3.2.15 After sales services: Routine operation field review & training update. Supplier will furnish a qualified field engineer to review unit operations & provide additional on Site training on demand by Purchaser. The bidder's are also required to provide skilled staff for operation and technical supervision for one year after commissioning by their own trained operating staff which will include one operator in each shift and one instrument mechanic.
- 3.2.16 Electricity required for Site fabrication will be supplied at actual cost, but energy meter required for the same will have to be arranged by Supplier However, water required for erection & trials will be supplied free of cost.
- 3.2.17 The bidder is required to depute their technical representative for Site inspection to our factory Site before submitting their bid.
- 3.2.18 The tenderer should get acquainted with the local conditions at the factory Site & must be acquainted with the rules & regulations of Central & State Govt.
- 3.2.19 All fabrication of equipments will be done under stage wise third party inspection (arranged by Purchaser). All bought out equipments should be offered for inspection before dispatch.
- 3.2.20 Design, supply, erection and mechanical & water commissioning of the PLANT & machinery should be completed within six months from the date of agreement.
- 3.2.21 The Supplier will prepare & submit to Purchaser the PERT/ CPM chart and time schedule for progress and completion of work accordingly. Supplier will adhere to the time schedule from progress and completion of works.
- 3.2.22 The price should be quoted in the specified format. Income Tax applicable will be deducted at source.
- 3.2.23 Supplier should submit all built drawing (Three copies each) for all fabricated equipments, actual equipment layout, piping layout, cable layout & elevation drawing.
- 3.2.24 First fill of oil & grease will be in the scope of Supplier.

- 3.2.25 The Supplier shall also make available the required design data and drawings etc as desired by excise and other govt. department for their approval.

Performance Guarantees

- 4.1 All the PLANT and machinery and its accessories should be guaranteed for a period of 12 months from the date of performance trial for material, workmanship & performance.
- 4.2 PLANT & machinery and its accessories should be of first class quality as per standard specifications. Any material found defective during the Guarantee period shall be replaced by the Supplier free of cost.
- 4.3 The Supplier shall give performance trial of the Ethanol PLANT as per specified parameters within 60 days from the date of commissioning of PLANT (i.e. DOA + 240 days).
- 4.4 Process performance guarantee :
Guarantee for Absolute Alcohol PLANT shall be for following parameters:
- a. Capacity & efficiency
 - b. Raw material consumption
 - c. Utility consumption - i. Steam, ii. Power, iii. Chemicals
 - d. Finished product quality
 - e. Performance of bought out items.

The above performance parameters should be achieved on every day of seven consecutive full working days for each unit.

- 4.5 The make of the main units to be supplied by the Supplier to the Purchaser shall be any one of the makes specified by the Purchaser.

5.0 Responsibilities of the Supplier

- 5.1 The Supplier shall furnish within 4 weeks of signing of this agreement, a PERT/CPM/CompoSite bar chart for approval of time bound programme by mutual discussion.
- 5.2 Supplier shall strictly follow the pert/CPM chart and shall ensure that the machinery and equipment shall be delivered in sequence of priority for erection so that the items which should be erected first as per the erection schedule shall be sent first and with the same order of priority the progress of delivery shall be maintained thereafter accordingly. The said monthly delivery schedule shall also indicate the equipment together with respective specifications and process thereon.
- 5.3 The Supplier shall agree to prepare and make available to the Purchaser within four weeks from the Effective Date preferential list of bought out, shop fabricated and Site fabricated items of the PLANT and machinery, equipments and accessories including the controlling instruments which would be required for erection, commissioning and operation of the said PLANTs as more particularly specified in Annexure to this agreement together with respective specifications and process thereon.

- 5.4 Not more than four weeks from the Effective Date, the Supplier shall provide to the Purchaser six sets of drawings & RTF of layout PLANT & machinery foundation, structured work, piping diagram and electrical diagram with detailed project schedule. This will be followed by monthly progress reports on 10th day of each month - progress of activities listed in detailed project schedule and revision in schedule arising out of protracted activities. Copies of the progress report shall be endorsed to the General Manager of the Sugar Mill with copy to the Managing Director, U.P. Co-operative Sugar Factories Federation Ltd. Lucknow. The drawing shall be submitted to the Purchaser and/or its inspection Agency for prior approval. The Purchaser and/or its Inspection Agency has every right to scrutinize, modify the drawings.
- 5.5 Supplier shall produce two sets of CD and one set of ZIP drive disc of all design, drawings, layouts related to fabricated items, boughtout items, piping, structure, offsets etc.
- 5.6 The Supplier shall depute their representatives on Site to take the delivery of the machinery and equipments who shall be fully responsible for handling, unloading, transport and proper storage. The deliveries of material shall be accompanied with clear details packing lists in triplicate mentioning therein gross weight of the packages as well as net weight of the concerned equipment.
- 5.7 The Purchaser shall provide the necessary secured godown facilities. However, Supplier shall be responsible for use of godown at his own security.
- 5.8 Supplier shall ensure that the design features and quality of workmanship of PLANT and machinery shall be strictly as per the PLANT Specifications and standard engineering practices. The Purchaser shall have the right to appoint National Federation of Cooperative Sugar Factories Ltd, New Delhi (N.F.C.S.F. Ltd.), to visit place of manufacture assembly or machinery to inspect the same. The Supplier shall offer the PLANT and machinery for inspection during course of manufacture as well as before dispatch. The Supplier shall give at least 15 days clear notice telegraphically/by fax followed by confirmation letter to the Purchaser and Inspection Agency for inspection before dispatch of equipment to Site. If within 15 days the inspection does not take place, the machinery and equipments will be dispatched in inspection waiver letter shall be issued by the Purchaser/ Inspection Agency. Such equipments/ materials will be inspected at Site provided inspection waiver letter is given by Purchaser/ Inspection Agency. The Supplier shall prepare the list of equipments, materials to be inspected in consultation with the Purchaser and Inspection Agency. The Purchaser or their Inspection Agency shall have the right to reject any material or assemblies or sub-assemblies if these are not of the specified quality and workmanship on the ground that they cannot be rectified.

The Purchaser or Inspection Agency shall within their rights to bring to the notice of the Supplier any deviation observed from the specifications as per annexure or standard engineering practices and the Supplier shall be required to rectify such defects and deviations if any out of their own cost, such inspection by the Purchaser and / or Inspection Agency shall not absolve the Supplier for his responsibility of supply in the PLANT and machinery in accordance with the annexure and terms and conditions of this agreement.

The Supplier shall provide free of cost with necessary facility to Purchaser and/or its Inspection Agency for proper inspection and testing of the equipments at Suppliers work or at proposed factory Site. The expenses relating to inspection shall be borne by the Supplier.

The assemblies or sub-assemblies/ equipments not accepted by the Purchaser and/or Inspection Agency have been rectified or altered; such parts/ equipments assemblies or sub-assemblies shall be segregated for separate inspection and approval before being incorporated in the PLANT and machinery.

The Purchaser and/ or their Inspection Agency shall have the right to give their inspection mark on all items inspected by them.

Under no circumstances the Supplier shall be absolved from the responsibilities of inspection.

5.9 The Supplier hereby agree to take out excess material goods brought at Site with the prior written permission of the Purchaser.

5.10 Supplier shall provide first filling of the oils and lubricants wherever necessary.

5.11 Supplier shall ensure that all pipelines shall be provided with flanges at length not exceeding running 6 meters to facilitate easy dismantling. Good quality jointing shall be made on all flange points to commensurate with pressure temperature and characteristics of the materials to be handled.

5.12 Insurance-

The Supplier shall be responsible at their own cost for comprehensive risk insurance including transit- cum - storage - cum - erection commissioning insurance of all machinery and equipments and other consumables directly dispatched to the Purchaser's PLANT Site from the respective places of manufacture. The insurance policies in respect thereof shall be arranged by the Supplier and kept in full force and effective until commissioning. The Supplier shall supply replacement of machinery and equipments goods or parts lost or damaged in transit, during storage or during erection and commissioning, free of cost at the Site of the Purchaser within the time so as to adhere to the date of commissioning mentioned in this agreement. The Purchaser will be absolved from any responsibility or liabilities arised on account of accident.

5.13 All freight charges, wharfage and demurrage shall be borne by the Supplier.

5.14 During and until commissioning and operation of the PLANT, the Supplier shall be fully responsible for any losses or damages to their persons and property resulting from any cause whatsoever connected with the erection and operation of the work and the Supplier shall provide the insurance at their own cost for the chief erector and their assistants and erection workmen deputed for the erection, for death or bodily injury suffered by the staff members or erection workmen or other staff members personally deputed by them for the purpose of erection and commissioning. In the event, if the Purchaser is required to pay any compensation to a workman employed by the Supplier in the execution of the work, the Supplier shall reimburse to the Purchaser the compensation so paid without prejudice to the rights of the Purchaser.

5.15 Foreign exchange-

Any foreign exchange required for import of raw material or equipments shall be arranged by the Supplier. Non availability of foreign exchange shall not entitle the Supplier any extension of time for commissioning of the PLANT.

6.0 Trials and Takeover

6.1 As soon as the PLANT is ready for commissioning after completion of the erection of entire PLANT and machinery, the Supplier shall notify in writing to the Purchaser specifying the date and time, at least 30 days before so that the Purchaser can arrange for steam, molasses, process water, power and operational staff and workmen. Unless otherwise agreed to by the Purchaser and Supplier, the Supplier shall begin the said trials on the date and time so notified.

PROVIDED THAT the water trials shall be conducted by the Supplier for a period of a week before commissioning of the PLANT and machinery to the satisfaction of Purchaser. The hydraulic trials will be conducted jointly to verify the leakages etc.

6.2 After the steam, water and vacuum trials have been completed to the 'entire satisfaction of the Purchaser and on their furnishing a certificate to the effect that all the PLANT and machinery mentioned in the Technical Specification as described in Annexure to this Agreement, the PLANT will be certified as mechanically completed for commissioning.

6.3 The performance trials will be conducted in the presence of authorized representative of authorities like NFCSF Ltd. or third party agency as specified by the Purchaser.

The performance parameters should be achieved on every day of seven consecutive full working days for each unit. This should be fulfilled within two months from start of the PLANT operation.

6.4 The Supplier shall give performance trial to the satisfaction of the Committee constituted and the Committee should record minutes of the proceedings of their observations indicating clearly whether the performance parameters have been achieved or otherwise. For achievement of performance as per guaranteed norms the Supplier will make necessary modification, alteration in 'the process at its cost in consultation with Purchaser.

6.5 In the event of failure of providing necessary facilities required for commissioning by the Purchaser within 90 days from the mechanical completion, then the commissioning trial period will be extended for another 90 days.

7.0 Purchaser's Responsibility

7.1 The Purchaser shall pay the statutory inspection and other fees and charges payable under the terms of any act or regulations in respect of the installation, operation or use of machinery and equipments. But follow-up work is to be done and approval is to be obtained by Supplier at its cost.

- 7.2 The Purchaser shall provide free of cost to the Supplier or its sub-contractors suitable secured godown for storage of the equipments, tools and tackles etc. in the premises of work for the erection, installation and commissioning work.
- 7.3 If required, available workshop facility will be provided at extra cost without disturbing the routine maintenance work for erection work and not for fabrication work.
- 7.4 The Purchaser shall provide to the contractor electrical power at one point for erection within one month from the date of signing of this agreement. Power consumed by the Supplier shall be paid by the supplier and for which a separate energy meter will be fitted by Supplier.
- 7.5 The Purchaser shall provide at its cost for the trial run to the Supplier adequate water supply at Site.
- 7.6 The Purchaser shall provide at his cost adequate Labour (unskilled) during steam and water trails and commissioning and operating the PLANT and machinery.
- 7.7 The Purchaser shall provide the Supplier reasonable accommodation with drinking water and electricity as and when necessary for erection staff and Labour, free of cost during erection work before starting erection.
- 7.8 The Purchaser agrees to assist the Supplier's requirement of steel under the prevailing SAIL scheme for priority allotment required for machinery and equipments to be supplied under this agreement but the responsibility of getting the required steel quantities shall be Supplier's alone. The inability on the part of the Supplier to procure supplies of stainless steel, mild steel, D.O. copper, brass, etc. will not absolve or release in any way the Supplier and Supplier will not be entitled to claim any compensation or any extension of time for that reason.
- 7.9 Payment of Contract Price: Subject to provisions of this agreement, Purchaser will pay contract price to Supplier.

8.0 Patent, Copyright, Secrecy, Force-Majeure

8.1 Patent & Copyright -

The Supplier shall hold and save the Purchaser, officers, agents, servants and employees harmless from liability of any nature or kind including the costs and expenses for or on account of breach of any copyright or invention or secret process patented or unpatented, articles manufactured or use in the performance of this contract including their use by the Purchaser, unless otherwise specifically stipulated in this agreement. In the event of any claims or demand being made or action being brought against the Purchaser for infringement of any patent the Supplier will indemnify the Purchaser against such claims or demand and all costs and expenses arising from or incurred by reason or such claim or demand.

- 8.2 Provided that the Purchaser shall notify in writing to the Supplier immediately if any claim is made and that they shall be at liberty if they so desire with the assistance of the Purchaser, if required, but at the Supplier own cost, charges and expenses to

conduct all negotiations for settlement of the same or any litigation that may arise there from and provided that in such motion or thing shall be used by the Purchaser for any purpose or in any manner other than that for which they have been supplied by the Supplier as specified in this agreement.

- 8.3 Secrecy -Any data, information, design, drawing, process know-how and other such documentation pertaining to design, manufacture, or PLANT and machinery being suggested by the Supplier under this agreement which the Supplier may discuss and / or elaborate and / or handover to the Purchaser from time to time are of proprietary nature and shall be kept confidential by the Purchaser.

The Purchaser shall not disclose information on design drawing, process know-how and such documentation to any other third party nor use it for any other purpose other than its intended use without prior written permission from the Supplier.

- 8.4 Force Majeure:

The right of the Supplier to proceed with the work shall not be terminated as provided in this agreement, because of any delay in completion of the work due to unforeseen cause beyond the control and without the fault or negligence of the Supplier including (but not restricted to) act of God, Act of Government in its sovereign capacity, floods, epidemics, quarantine, fires; explosions, accident, civil commotion and riots. In the event of any of the aforesaid contingencies unusual or extraordinarily delay is expected in performance of work the Purchaser shall be promptly informed by the Supplier by telegram/telex followed by confirmation in writing with documentary proofs within 10 days of the commencement and completion of fore-Majeure circumstances.

- a) Force majeure clause shall be applied only to the supply, civil work and erection & commission of plant fall in the period.
- b) This clause shall not be applicable if an order is placed by the Supplier at the time of buying, the sub-supplier factory/workshop is under force majeure condition.
- c) Any loss/damage on account of delay in delivery of Plant and equipments beyond and period of delivery schedule due to force majeure will be borne by the Supplier.
- d) Extension of Time – Any period within which the supplier shall, pursuant to this Agreement, complete any action or task, shall be extended by the Purchaser if satisfied, for a period equal to the time during which the Party was unable to perform such action as a result of Force Majeure.
- e) Measures to be taken – Party affected by an event of Force Majeure shall take all reasonable measures to remove such Supplier's inability to fulfil its obligation hereunder with a minimum of delay. The supplier shall take all reasonable measures to minimize the consequences of any event of Force Majeure.

8.5 The Supplier shall not assign or sublet their right and obligations arising out of or in relation to this agreement. Supplier shall not perform the contract by sub-contract.

9.0 Penalties & Liquidated Damages

9.1 Delayed Commissioning -

0.5 percent of the Contract Price shall be deducted by Purchaser for delayed commissioning of PLANT for every completed week of delay but not exceeding 5% of the Contract Price.

9.2 **Liquidated damages –**

- (a) If the Supplier fail to execute the order/contract within the specified period due to force majeure, Supplier shall inform the same to the Purchaser and request for extension of time for performance of work, the Managing Director of UP Co-operative Sugar Factories Federation Ltd., Lucknow, may if find valid for extension of time he may extend the period without charging any agreed liquidated damages. His decision shall be final regarding the sufficiency or otherwise of grounds for extension of time.
- (b) If the Supplier fails to execute the order/contract within the specified period the Managing Director of UP Co-operative Sugar Factories Federation Ltd. Lucknow may at his discretion allow extension of time, subject to recovery from the Supplier the liquidated damages which will be @0.5% per week subject to maximum of 5% of the Contract Price.

10 Payment and Bank Guarantee:

Payment to the Supplier will be released in the following manner free of interest

10.1 Payment to the Supplier will be made through Demand draft/RTGS/ cheque in favour of Supplier.

10.2 The Purchaser will pay the price for supply and erection and commissioning to the Supplier in the following manner free of interest.

10.2.1 Ten percent (10%) of the Contract Price (Excluding Excise Duty and CST/VAT) as mobilization advance will be released in two equal installments. The first installment will be released after issuance of the work order and within 15 days on furnishing of a Bank Guarantee for the amount of 10% of the Contract Price excluding excise duty, CST and VAT of any Nationalized bank on Federation's prescribed proforma. The second installment will be released after successful utilization of the first installment. The advance amount given as above shall be deducted from the supplies bills on prorata basis and then bank guarantee shall be automatically adjusted and get reduced by the extent of total value of Machinery & Equipment related items dispatched by the Supplier upto the time. This guarantee shall remain valid for a period of one year from the date of agreement i.e DOA+365days. However if any amount of advance remains unadjusted within the validity period of Bank Guarantee, the guarantee shall be extended for a further period of six months.

10.2.2 The Supplier will submit the break up of price to the Purchaser for stage wise completion of supply, fabrication, erection & commissioning work, Hydraulic trials and installation of all instrument control loops and PLC System and to start satisfactory commercial production. Accordingly, payment of bills will be made as per work progress.

- 10.2.3 After receipt of material at Site or at the progress of erection and commissioning work, the bill raised along with necessary documents by the Supplier to be paid after making prorata deductions of advance, interest on advance and security deposit as mentioned above. The payment will be made through RTGS/DD/Banker's Cheque.
- 10.3 Taxes & Duties as applicable shall be borne by the successful bidder.
- 10.3.1 The Govt. Taxes & other levies if any shall be borne by the successful tenderer.
- 10.3.2 The tenderer must declare the liable taxes and duties clearly, the Purchaser on the documentary proof of payment of taxes will pay the same but in no case the Contract Price will exceed that specified in the tender.
- 10.3.3 Octroi /Entry tax if any applicable shall be borne by the successful tenderer.
- 10.4 **Sales Tax/Vat**
The rate of sales Tax/Vat payable will be as applicable at the time of delivery. Payment is subject to the actual payment to the Govt. and on written undertaking that the same is statutorily payable by the Supplier to the Govt.
- 10.5 **Excise Duty**
- (i) Bidder must declare the excise duties in the tender and the Purchaser on documentary proof will pay the same. The central excise duty applicable will be paid only on receipt of original invoice. If there is any difference in the central excise duty quoted and the actual payment made then the difference amount will be recovered/paid as the case may be.
- (ii) The Supplier shall also furnish to the Purchaser with their bills all excise invoices in original in support of central excise duty in order to avail CENVAT credit by the Purchaser. If excise invoice is not submitted the relative excise duty amount will not be paid.
- 10.6 **Income Tax**
Income tax as applicable will be deducted at source, while releasing the payment against Bill/Total Bill.
- 10.7 **Work Contract Tax**
Work contract tax if applicable, will be deducted at source, while releasing the payment against Bill/Total Bill.
- 10.8 **Labour Cess**
Labour Cess as applicable, will be deducted at source, while releasing the payment against Bill/Total Bill.
- 10.9 **Changes in Tax Structure**
Any increase or decrease in taxes or duties will be made applicable to both the Purchaser & Supplier subject to the authenticated proof. The increase in the amount of taxes and duties will be on Supplier's account if the material is not supplied as per delivery schedule.
- 11 The material should strictly conform to the specifications given in the order. The authorized representative of the Federation/The Purchaser may inspect the material at Supplier works/ godown before taking delivery. The Supplier has to provide all facilities in the process of inspection.
- (i) The material should strictly conform to the specifications given in the rate contract/order. The authorized representative of the Federation/ the respective distillery may inspect the material at Supplier work/godown before taking delivery. The Supplier has to provide all facilities in the process of inspection.

- (ii) The sub-standard material and material not conforming to the specifications will be rejected by the Purchaser. The Supplier will arrange the transport of rejected material at their own cost and risk within 15 days from the factory
- (iii) For checking of the genuineness of the material, the sample may be taken out and sent to inspecting agency/laboratory by the Purchaser. In case the supplied material is found spurious, the same shall be returned by the Purchaser. The loss on account of cost of material along with interest @18% per annum shall be recovered from the Supplier. Action for Black listing the Supplier may also be taken by the Purchaser. The inspection expenditure will be born by the supplier.

12. SANCTITY

The Purchase order is final agreement between Supplier and the Purchaser. Any terms and conditions of enquiry/letter, tender/ quotation or any

13. Bank Guarantee

13.1 To secure the contractual obligations as per this Agreement, the Supplier at its own cost shall furnish to the Purchaser, the following three bank guarantees by a Nationalized Bank in the form approved by the Purchaser:

- i) Ten percent (10%) of the Basic Contract Price ,e.,Contract Price excluding Excise Duty , CST/VAT,packing forwarding etc, as mobilization advance will be released in two equal installments. The first installment will be released after issuance of the work order and within 15 days on furnishing of a Bank Guarantee for the amount of 10% of the Contract Price excluding excise duty, CST and VAT of any nationalized bank on Federation's prescribed proforma. The second installment will be released after successful utilization of the first installment. The advance amount given as above shall be deducted from the supplies bills on prorata basis and then bank guarantee shall be automatically adjusted and get reduced by the extent of total value of Machinery & Equipment related items dispatched by the Supplier upto the time. This guarantee shall remain valid for a period of one year from the date of agreement. However if any amount of advance remains unadjusted within the validity period of bank guarantee, the guarantee shall be extended for a further period of six months.

The advance given under clause 10.1 (i) shall carry interest @ 12% per annum on reducing balance from the date of issue of cheque/bank draft till the progressive adjustment in the bills. The date of adjustment of bills means the date on which the duly inspected machinery / equipment / material is received at site.

- ii) Supplier shall furnish a second bank guarantee on Federation prescribed proforma by any nationalized bank for 5% of the Contract Price before signing of the agreement for timely completion of work i.e. Supply erection and supervision of erection and satisfactory commissioning of PLANT upto start of commercial production. As per delivery schedule provided by the Federation (excluding Excise Duty and CST/VAT) The Bank Guarantee shall be valid up to Six months after start of commercial production.
- iii) Supplier shall furnish a third bank guarantee by any nationalized bank for 5% of the Contract Price on federation's prescribed proforma. This bank guarantee in respect of performance of the PLANT and machineries will be submitted within 60 days of signing of agreement and shall be valid for 12 months from date of successful performance trial. The performance guarantee may be released after 12 months of successful performance.

14. Security Deposit

Subject to clause 6 Security Deposit shall be 5% of the Contract Price. The EMD amount deposited by the successful bidder shall be automatically converted into security deposit after award of contract. The balance amount shall be deducted from bills on prorata basis. The refund of the security deposit shall be after six months of timely and satisfactory completion of work i.e Supply, Erection and Commissioning (including design, preparation of engineering layout, manufacture, procurement of bought out items etc) of 20 KL per day capacity anhydrous ethanol PLANT on turnkey basis as per scope of work and specifications given in the bid document at Kisan Sahkari Chini Mills Ltd. Ghosi, Mau, Uttar Pradesh. after start of commercial production and also on full and final adjustment of claim/dues of distillery units or other units of federation and penalties if any.

15. Arbitration, Negligence, Packing Material

15.1 Arbitration

If at any time, dispute or difference, whatsoever, shall arise between the Supplier and the Purchaser arising out of or in connection with the stipulations of this contract except those which are expressly excluded from the ambit of the contract hereinafter, the parties hereto shall at first, settle such dispute or difference amicably by mutual negotiations, However, should the parties hereto reach no agreement, either party may, by giving a notice in writing to the other refer such dispute or difference for Arbitration as per the provisions of the Arbitration and Reconciliation Act, 1996 where the Managing Director, U.P. Co-operative Sugar Factories Federation Ltd., shall be the Sole Arbitrator. The venue of Arbitration shall be at Lucknow only.

15.2 Negligence of the Supplier

If the Supplier shall commit any negligence in the process of manufacture or supply the PLANT and machinery or to erect and commission the same or to dismantle, modify, strengthen, re-erect and also commissioning of the existing equipment or any dismantle and shift outside the factory building the existing equipment is to be discarded with due diligence expeditiously and refusal or if the Supplier neglects to comply with any orders communicated in writing by the Purchaser and in connection herewith, the Purchaser may give notice in writing to the Supplier to make good such negligence or any contravention complained or within a reasonably specified time. However if the Supplier continues to fail to comply with the notice within the time specified in the notice (to be reckoned from the date of receipt of notice by the Supplier), the Purchaser may take over the work of manufacture, supply, erection, dismantling and re-erection of the existing machinery or commissioning of equipments as a whole or in part thereof from the Supplier and may give it to another person on contract at a reasonable price and also be entitled to recover any excess cost thus incurred by the Purchaser or make it good from any bills or dues of the Supplier pertaining to this agreement or else recover such amount in any lawful manner from the Supplier.

15.3 Packing material

Since the cost of packing material will be borne by the Purchaser, all containers (including packing cases, boxes, tins, drums and wrappings, etc.) in which machinery and equipments and stores will be supplied, shall be considered non-returnable to the Supplier.

16. Maintenance/Warranty

- 16.1 For a period of 12 months from the date of performance trail of PLANT (called the warranty period) or 18 months from the date of last supply whichever is earlier, the Supplier shall be liable to rectify / replace the PLANT and machinery or parts thereof which are found to be defective or underrated and are not in proper use due to faulty design or material workmanship or erection or otherwise as the case may be. The Purchaser or it's Inspection Agency shall give the Supplier notice in writing setting out the particulars of the defects or failure and the Supplier shall thereupon rectify the defective or under-rated equipments or replace same free of cost in order to make it comply with the requirement of this Agreement. If the Supplier fail to replace or rectify the same within reasonable time, the Purchaser may rectify and/or replace by giving prior intimation regarding the cost incurrence to the Supplier of the whole or any portion of the equipment, as the case may be and as such the purchaser may recover the actual cost thereof from the Supplier from any balance payment to made to the Supplier or by invoking the performance Bank Guarantee or recover the same by raising the debit note or otherwise.
- 16.1(a) In case of such rectification / replacement, Supplier shall be liable to pay all the costs, charges, expense of such rectification / replacement done and the defective equipment on being replaced shall be taken away by the Supplier at its own cost. The Purchaser shall have the right to operate any equipment after the commissioning date of the PLANT except that this shall not be considered as to permit operation of any equipment which may be materially damaged by such operation before any required rectifications / alterations have been carried out.
- 16.1(b) If it becomes necessary according to the Seller to replace or renew any defective part of the machinery under this clause, the provision of warrantee period shall apply to the parts of the PLANT and machinery so replaced or renewed within a period of twelve months from the date of completion till the end of the aforesaid warrantee period as defined above whichever is later.
- 16.1(c) The rectification or new parts will be delivered F.O.R. Purchaser factory Site. The Suppliers shall also bear the cost of any rectification / replacement carried out on its behalf by the Purchasers as mentioned above at the Site.
17. All the term and conditions of the tender document will form part of this agreement.
18. In case of non compliance of the conditions of this contract including over delay in commissioning of the plant, unsatisfactory or defective or poor workmanship by the Supplier , the Purchaser shall have the power to rescind, cancel and annul this contract, apart from black-listing the Supplier, and in that event, the sum deposited towards security shall be forfeited and guarantee submitted shall be invoked. The Supplier shall be further liable to pay actual amount of loss and damages incurred by the Purchaser to the extent the same exceeds the Security Deposit.

19. **Jurisdiction:**

Notwithstanding anything contained in the above provision, the Allahabad High Court at Lucknow and Courts sub-ordinate thereto shall have the exclusive jurisdiction with regard to any or all matters arising out of this contract

20. This agreement shall remain enforce from the date of agreement till the final settlement between the seller and purchaser.

SECTION III(E) : PERFORMANCE STATEMENT

Supply, Erection and Commissioning (including design, preparation of engineering layout, manufacture , procurement of boughtout items etc) of 20 KL per day capacity anhydrous ethanol PLANT on turn Key basis at kisan sahakari chini mills Ltd.,Distillery unit Ghosi (Mau) in Uttar Pradesh of the following PLANTs/machineries.

Name of Company/Firm

Order placed by (Full address of Purchaser)	Order No.& Date	Description & Quantity of ordered goods	Value of order	Date of completion of delivery		Remarks indicating reasons for late delivery, if any
				As per contract	Actual	
1	2	3	4	5	6	7

Signature and seal of the E-Bidder
With name of the authorized person

SECTION III (F): CAPABILITY STATEMENT (CS)

1. (a) Name and complete mailing address of the business/sales office of the bidder.

(b) Name of Authorized Official

(c) Phone:

(d) Fax:

(e) E-mail:

(f) Principal place of business

(g) Website of Bidder's Firm

Parties Will Have To Furnish Under Noted Information During The Technical Discussions With Documentary Proof:

SNO	Particulars	
1	Address of main workshop where the major portion of the PLANT and machinery will be	
2	Address for sending all communication (letters) during the execution of the project	
3	Name of Banker & Address	
4	Number, size of Ethanol PLANTs erected & commissioned and technology adopted as per clause 21 of ITB.	
5	Detail of E.M.D/Tender Fee	
6	Details of Orders in hand/executed (1) No. of complete Alcohol Dehydration PLANTs - already executed. (2) No. of complete New Alcohol Dehydration PLANTs - under execution	
7	Details of executed distillery complexes executed in last six years. 1. Production Capacity : 2. Name of Purchaser : 3. Cost of the Project : 4. Type of Technology : 5. Date of commencement and finishing of the project. 6. Main terms & conditions: As per Agreement/or any amendments, may be mentioned.	
8	The bidder should have adequate experience of Supply , Erection and Commissioning (including design, preparation of engineering layout, manufacture , procurement of bought out items etc) of two Anhydrous Ethanol PLANTs (fuel ethanol grade) on turnkey basis for which order copies along with performance certificate should also be enclosed with the tender.	
9	Details of last three years turnover i.e. for financial 2011-12,2012-13 and 2013-14 duly certified by Chartered Accountant	
10	Copy of last submitted Income Tax Return for the year	

	2013-14 and copy of PAN card (self attested)	
11	Copy of last audited balance sheet for the year 2013-14.	
12	Details of Trade Tax/MST/CST/TIN NO	
13	Central Excise Registration Certificate	
14	Status of the Proprietary Firm/Partnership Firm/Companies/Consortium of Companies along with names of Directors/Partners/Proprietor along with documents.	
15	Year of establishment and Registration No. if applicable	
16	Registration No. of ESI and PF	
17	Work Contract Registration Number	
18	Current Solvency Certificate for minimum amount of rupees 4 crores in case of proprietary firm/Partnership Firm duly issued by district administration and in case of companies net worth certificate for minimum amount of rupees 4 crores duly certified by a Chartered Accountant.	
19	Name of Banker with full address	
20	Style of account and account no	
21	Whether the firm has any suits/claims Pending with tax authorities (Give Details)	

Seal and signature of the bidder _____
With Name of Authorized
Official signing the agreement.

SECTION III (G): AFFIDAVIT

**TO WHOM IT MAY CONCERN
AFFIDAVIT IN RELATION TO THE E-TENDER**

I (Full Name), aged about, S/O Shri
..... (Full Name), is resident of
.....
(Permanent address/present address), is the director/representative/partner of M/s
..... (address of registered office), do hereby solemnly affirm and
state on oath as under;

1. I/We state and confirm that I/we or our holding company/subsidiary company have not been convicted by any court of law or indicted or adverse orders passed by a Regulatory Authority or Government of India/State Governments/ Undertakings or any FIR related to economic or criminal offence has been lodged against the directors/senior officials of the Company/Firm/me which would cast a doubt on our ability to manage/deal with the public sector unit or which relates to grave offence that outrages the moral sense of the community.
2. I/We further state and confirm that in regard to matters relating to security and integrity of the country, I/we have not been charge-sheeted/Black-Listed by any agency of the Government of India/State Governments/Undertakings and/or not been convicted for any offence by any court of law by me/us or by any of our holding/subsidiary company.
3. I/We undertake that in case of any change in the facts and circumstances during the agreement period, such change would attract the provisions of disqualification mentioned in tender document.
4. I/We state and confirm that I/we have not been debarred/disqualified from participating in the tender process of Government of India or State Governments or their instrumentalities.
5. I/We state and confirm that the applicant or in case of a Consortium, any member of the Consortium has made, incorrect, misleading or false misrepresentation in the forms, statements and attachments submitted, whether intentionally or unintentionally be dropped from further consideration.

Deponent

Verification

I above named (authorized signatory), do hereby verify the contents of para 1-5 are true to my personal knowledge.

Signed and verified on

Deponent

I identify the deponent who has signed before me.

Advocate

SECTION IV : FINANCIAL e-Bid

IV (A) e-Bid FORM

IV (B) PRICE SCHEDULE/BOQ

SECTION IV(A): e -bid FORM

IFB No. UPSUGARFED/ GM(A.T)/169B/2014-15/5

Date :

To:

The Managing Director,
U.P.Co-operative Sugar Factories Federation Ltd,
9-A, Rana Pratap Marg, Lucknow

Dear Sir,

Having examined the e-Bid Documents, we the undersigned, offer to supply 20 KLPD capacity and anhydrous ethanol plant on term key basis as per scope of work and technical specifications inconformity with the said e-Bid Documents for the rates as may be ascertained in accordance with the schedule of rates attached herewith and made part of this e-bid, and hereby undertake that we accept all terms and conditions of E-Tender/contract (section II) of the e-Bid Document and will Supply , Erection and Commissioning (including design, preparation of engineering layout, manufacture , procurement of bought out items etc) of 20 KL per day capacity anhydrous ethanol PLANT On turn Key basis at (The Kisan Sahkari Chini Mills Ltd. Distillery Unit Ghosi, Mau) in Uttar Pradesh from our manufacturing works/unit as per the Technical specifications (Section III (c) to your sugar factories. In addition to this, the particulars of our organization such as legal status principal place of business, details of experience and past performance, capability statement and the required E.M.D in the form of Demand Draft in favour of U.P. Co-operative Sugar Factories Federation Ltd. Lucknow are furnished with this e-Bid form.

We further undertake, if our e-Bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the schedule of Requirements (section III (b)).

We agree to abide by this e-Bid for the e-Bid validity period specified in Clause 13.1 of the ITB and it shall remain binding upon us and may be accepted at any time before the expiration of that period. Until a formal contract is prepared and executed, this e-Bid, together with you ,written acceptance thereof and your notification of award shall constitute a binding contract between us.

We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India namely "Prevention of Corruption Act 1998".

We understand that you are not bound to accept the lowest or any e-Bid you may receive.

Dated.....day of.....20

.....

(Signature & Name of Official)

.....

(In the capacity of)

Duly authorized to sign e-Bid for and on behalf of

SECTION IV (B) PRICE SCHEDULE/BOQ

[Validate](#) [Print](#) [Help](#) [Misc BoQ](#)

Tender Inviting Authority: U.P. Co-operative Sugar Factories Federation Ltd. Lucknow

Name of Work: Supply, Erection and Commissioning (including design, preparation of engineering layout, manufacture, procurement of boughtout items etc) of 20 KL capacity anhydrous ethanol PLANT on turn key basis for The Kisan Sakkari Chini Mills Ltd. Distillery Unit Ghosi, Mau as per specifications given in the bid document

Contract No: _____

Bidder Name: _____

PRICE SCHEDULE													
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only.)													
NUMBER #	TEXT #	TEXT #	NUMBER #	NUMBER #	NUMBER #	NUMBER #	NUMBER #	TEXT	TEXT	NUMBER #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Units	BASIC PRICE (In Rs.)	Packing & Forwarding Charges in Rs.	Freight Charges (Unloading & Stacking) in Rs.	Custom Duty on Imported raw material and finished goods and entry Tax/Other in Rs.	VAT/Sales Tax/CST in Rs.	Excise Duty and Service Tax in Rs.	Insurance (Material & upto commissioning) in Rs.	Any Other Expenses If any in Rs.	TOTAL AMOUNT Without Taxes	TOTAL AMOUNT With Taxes	TOTAL AMOUNT In Words
1	2	3	13	14	15	16	17	18	19	20	23	24	25
1	Supply												
1.01	Ex-works (Ex-bidders or their sub-contractors workshop or place of supply) price of the 20 KL per day capacity anhydrous ethanol plant as per specification in accordance with scope of work	Single Plant									0.0000	0.0000	NR Zero Only
1.02	Price of all civil works including foundations, building and structures etc.	Single Plant									0.0000	0.0000	NR Zero Only
1.03	Painting material including primary and final coatings as per colour scheme of purchaser	Single Plant									0.0000	0.0000	NR Zero Only
1.04	Price of oil lubricant & shall include oils and greases and also oil used for all the equipments where required	Single Plant									0.0000	0.0000	NR Zero Only
1.05	Price of transformer oil	Single Plant									0.0000	0.0000	NR Zero Only
1.06	Supervision of erection and commissioning including trial run and to provide skilled staff for operation and supervision of plant for a period of one year from commissioning.	Single Plant									0.0000	0.0000	NR Zero Only
1.07	Cost of handling material at Railway Station storage at site and security guard.	Single Plant									0.0000	0.0000	NR Zero Only
1.08	Cost of site handing erection trials & commissioning of the plant and machinery.	Single Plant									0.0000	0.0000	NR Zero Only
Total in Figures											0.0000	0.0000	NR Zero Only
Quoted Rate in Words													