

INDIAN MEDICINES PHARMACEUTICAL CORPORATION LIMITED

**(A Government of India Enterprise)**

**MOHAN (VIA-RAMNAGAR 244715) UTTRAKHAND**

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**EOI Ref. No:IMPCL/PROJ/ EOI /MACHINERY /03/2011-2012, DT. 02-01-2012**

**Last date and time for Submission of EOI:**

**23-01-2012 up to 15.00 Hrs**

[www.impclmohan.nic.in](http://www.impclmohan.nic.in)

## **EXPRESSION OF INTEREST (EOI)**

From reputed manufacturers of Pharma / Food Machinery for Design, fabrication, manufacture, assembly, testing including third party if required, inspection and supply including packing / forwarding, transportation and unloading at site, erection/ commissioning , all documentation & testing for cGMP compliance and providing performance guarantee for 1 Year, **on Lump Sum Turn-key (LSTK) BASIS for following Pharma Process Machinery (as per Annexure)** at Indian Medicines Pharmaceutical Co. Limited ( IMPCL ) plants at Mohan. All the machinery must be in compliance to Schedule-T and WHO-GMP standards.

### **SCOPE OF SUPPLY & WORK**

The scope of supply / work under this tender covers design, fabrication, manufacture, assembly, testing including third party inspection and supply including packing / forwarding, transportation and unloading at site, erection/ commissioning , all documentation & testing for cGMP compliance and providing performance guarantee for 1 year as stipulated in General conditions of Tender, Special Terms & Conditions. The responsibility of vendor/manufacturer will also include providing training to IMPCL personnel at site for operation, maintenance, handling of deviation & safety features.

### **ELIGIBILITY CRITERIA FOR THE BIDDER :**

The parties who will qualify for participating in the tenders must fulfill followings:

- (1) the party should have supplied & commissioned at least **10** Complete Pharma/ Food Machinery in compliance to WHO-GMP within last 1( One) years. .Documentary evidence (duly signed & stamped) must be enclosed.
- (2) Tenderer must have executed under their Company/ firm's name & style at least **8(Eight)** similar type of order for Supply, Erection & Commissioning of similar type of Pharma /Food Machinery during last 1 calendar year. Documentary evidence (duly signed & stamped) must be enclosed..
- (3) Financial credential to support execution of single order value of minimum **Rs 20.00 lacs**
- (4) **(Rupees Twenty Lakh)** only in last 2 years ( in same name and style of the firm) to be submitted. Documentary evidence (duly signed & stamped) must be enclosed..
- (5) Annual Turnover of the Firm/ company must be at least **Rs 500 Lakh** in each of last Two years. Or 1500 Lakh in Last three years. Documentary evidence (duly signed & stamped) must be enclosed.
- (6) Tenderer must have service station either in Delhi or Uttrakhand
- (7) Bidders are to submit copy of valid current Income Tax Return submitted , Sales Tax Registration failing which their offer may be liable to be rejected.
- (8) Client List- same equipments supplied within last 2 years. At least 5 performance related letters
  
- (9) **Only Machinery Manufacturers** can participate in this Tender.

Eligible Parties who fulfil above qualify criteria shall submit following:

- (i) all the documentary proof in support of their claim for above qualifications,
- (ii) Detail technical specification of the equipment(s) meeting GMP requirements of WHO and general requirements written in the Annexure herewith. Specification should describe its each major component.
- (iii) Parties to submit the *appropriate cost* of tender-fees @ **Rs 500/- per tender-package**, by way of Demand Draft (payable to 'Indian Medicines Pharmaceutical Co. Ltd.' at Mohan).

The last date of submission of EOI is **-23<sup>rd</sup> Jan 2012----- up to 15.00 Hrs.**

**The EOI must be sent in closed envelop superscribing the subject of EOI at the top of envelop**

## **GENERAL CONDITIONS OF CONTRACT**

1.0 This is only a Price Enquiry and not an order.

### **2.0 Two Bid System**

Bidders are required to submit offer in two parts namely “Unpriced” & “Priced”. Each part shall be submitted in separate envelope marked “Unpriced”/”Priced” as applicable. Both of above envelopes (after duly sealed) are to be kept in a large common envelope and the same is to be submitted to us by the due date.

Tender documents to be returned/forwarded (duly signed by bidder) along with the tender will be as follows:

Sr. No	Document	No of copies to be submitted with:	
		<u>Unpriced Bid</u>	<u>Priced Bid</u>
2.1	Technical Specifications with Literature & Pamphlets etc.	1	1
2.2	Agreed terms & conditions (duly filled and signed/stamped)	1	Nil
2.3	Price details	Nil	1

### **3.0 Validity**

- 3.1 Quoted prices shall be valid for a period of 120 days from the due date/extended Due date (if any) of the tender.
- 3.2 If the Bidder is unable to meet the technical specifications as solicited, they **must not quote for any substitute.**
- 3.3 Detailed literature along with pamphlets and performance certificates as applicable shall be attached to the offer.

### **4.0 Testing/Inspection:**

Equipment will be subject to inspection by Indian Medicines Pharmaceuticals Co.Ltd (IMPCL) . /3<sup>rd</sup> party / Consultant as per the scope of inspection attached. Such charges are to be borne by the bidder. *Quoted prices shall include Bidder's charges payable to 3<sup>rd</sup> party Inspection.*

### **5.0 Supply items**

- 5.1 IMPCL reserves the right to reject offers not meeting its Technical requirements and commercial conditions.
- 5.2 IMPCL reserves the right to accept any tender in whole or in part or reject any of the tenders without assigning any reason.
- 5.3 IMPCL shall not be bound to accept the issued tender and reserves right to reject any tender in part or in full. Decision of IMPCL in this connection shall be final.

### **6.0 Prices (supply items) are to be arrived at considering following price elements :**

- 6.1 Basic Price
- 6.2 Packing & Forwarding
- 6.3 Excise Duty
- 6.4 Sales Tax / VAT
- 6.5 Octroi or other charges
- 6.6 Freight charges on door delivery basis
- 6.7 Loading & Unloading charges at site
- 6.8 Transit Insurance
- 6.9 Installation & Commissioning

## 7.0 Terms & Conditions

### 7.1 Firm Prices

On placement of order, prices will remain firm till complete execution.

### 7.2 Delayed Delivery

Delivery is the essence of purchase order. In case of delay in execution of the order beyond contractual delivery date as stipulated in the order by IMPCL at its opinion can

Either

- i) accept the delayed delivery on price reduced by sum equivalent to one half of percent ( $\frac{1}{2}\%$ ) of the value of goods not delivered per week of delay or part thereof subject to a maximum of 5% of basic value of undelivered goods.

Or

- ii) Cancel the order in part or in full and purchase such cancelled quantities from elsewhere on account at the risk of the seller without prejudice to its right under (i) above in respect of goods delivered. All costs and expenses incurred by IMPCL, if any, resulting from cancellation of order shall be recovered from the seller.

### 7.3 Terms of payment

a) **25%** of Contract Value will be paid as mobilization advance against submission of Bank Guarantee (BG) of any Nationalised Bank of India for equal amount which shall remain valid for a period of 6(six) months with claim period of 3 months.

b) **45%** of Contract Value will be paid on receipt of equipment/material at site in *good condition* against submission of following documents along with Bill/Invoice:

- i) Delivery Challan/Lorry Receipt duly acknowledged by the Site-in-charge.
- ii) Manufacturer Test Certificate
- iii) Third Party Inspection/Clearance Report.
- iv) Manufacturer's Guarantee, which will be valid for the entire guarantee period.

V) Necessary Civil Drawings for installation of the equipment.

c) **20%** of Contract value shall be paid after completion of commissioning.

d) **Retention money:** Balance **10%** (Ten percent) of the contract value shall be considered for release after completion of Defect Liability Period / Guarantee Period, which shall be 12months from the date of commissioning or 12 months from the date of delivery, whichever is later. The retention money shall be released against submission of Bank Guarantee of equal amount, from any Nationalised Bank of India.

Payment will be released at all stages within 30 days from the date receipt of material at site in good condition /necessary documents and submission of bill to IMPCL. For delayed suppliers, bills will be reduced by the amount as per clause no 7.2 (delayed delivery). IMPCL cannot make any advance with order or against dispatch document through Bank.

#### 7.4 **Guarantee/ Defect Liability Period**

Supplier shall provide full guarantee against any manufacturing defects/poor workmanship/inferior design or quality etc. for a period of 12months from the date of commissioning or 18 months from the date of delivery, whichever is later. During this period supplier will arrange to repair/replace any defective part free of cost or replace item if required. Supplier shall guarantee that all the materials shall be supplied in grand new condition.

## **SPECIAL TERMS AND CONDITIONS**

The special terms & conditions as stated hereunder shall be read in conjunction with General Conditions of Tender.

### 1.0 Definitions

In this contract unless otherwise specifically provided or defined and unless a contrary intention appears from the contract the following words and expressions are used in the following meanings:

- 1.1 The terms "Agreement" wherever appearing in this document shall be read as "Contract".
- 1.2 The "Authority" for the purposed of this contract shall be the Managing Director or any other person so appointed or authorized.
- 1.3 The "Project" shall mean proposed IMPCL Plant at Mohan, the owner of project.
- 1.4 The "Managing Director" shall mean the Managing Director of IMPCL or any person so appointed nominated by him or designated and holding the office of Managing Director.
- 1.5 The "Change Order" means an order given in writing by the Engineer/Representative of the Owner (IMPCL) to effect additions to or deletion from or alterations into the Scope of Work/Supply of items.
- 1.6 The "Contract" between the Owner and the Vendor shall mean and include all documents like enquiry, tender submitted by the Vendor and the Purchase Order issued

by the owner and other documents connected with the issue of the Purchase Order and orders, instruction, drawings, change orders and the period of contract mentioned in the Contract including such periods of time extensions as may from time to time be furnished or approved in writing by the owner/authorized representative of Owner/Project.

- 1.7 “The Vendor” means the person or the persons, firm or Company whose tender has been accepted by the owner and includes the vendors legal heirs, representative, successor(s) and permitted assignees.
- 1.8 The “Drawings” shall include maps, plans and tracings or prints thereof with any modifications approved in writing by the Owner/authorized representative of Owner/Engineer-in-charge and such other drawings as may from time to time furnished or approved in writing by the Owner/authorized representative of Owner/Engineer-in-charge.
- 1.9 The “Site” means the land/location where the items/material shall be supplied.
- 1.10 The “Specifications” shall mean the various technical and the other specifications attached and referred to in tender documents it shall also include the latest editions, including all addenda/corrigenda or relevant Indian Standard Specifications and Bureau of Indian Standards.
- 1.11 The “Sub-Vendor” means any persons or firm or Company (other than the Vendor) to whom any part of the supply items has been entrusted by the Vendor with the prior written consent of the Owner/authorized representatives, successors and permitted assignees of such person, firm or Company.
- 1.12 The “Tender” means the document submitted by a person or authority for carrying out the entire work for supply and supervision of erection and commissioning and the Tenderer means a person or authority who submits the tender offering to carry out the same as per the terms and conditions.

1.13 The "Work" shall mean the entire scope of work/supply as specified in the tender in accordance with the Contract or part thereof as the case may be and shall include extra, additional, altered or substituted works as may be required for the purpose of completion of the work contemplated under the contract.

## 2.0 Submission of Tender

2.1 Before submitting the Tender, the Tenderer shall at their own cost and expenses visit the site, examine and satisfy as to the nature of the existing roads, means of communications, the character of the soil, state of land, the correct dimensions of the work facilities for supply of the items delivered at site.

2.2 The Tenderer shall be deemed to have satisfied fully before tendering as to the correctness and sufficiency of his tender for the supply and of the rates and prices quoted in the Schedule of Quantities which rates and prices shall except as otherwise provided cover all his obligations under the contract.

2.3 It must be clearly understood that the whole of the conditions and specifications are intended to be strictly enforced and that no work will be considered as extra work and allowed and paid for unless they are clearly outside the scope, spirit, meaning of the contract and intent of the owner and have been so ordered in writing by Owner and/or Engineer-in-Charge/Site-in-Charge, whose decision shall be final and binding.

2.4 Before filling the Tender, the Tenderer will check and satisfy all drawings and materials to be procured and the schedule of quantities by obtaining clarification from the owner on all the items as may be desired by the Tenderer. No claim for any alleged loss or compensation will be entertained on this account, after submission of tender by the Tenderer/Vendor and such a claim shall not be arbitrable.

2.5 *No escalation in the Tender rates will be permitted* throughout the period of contract or the period of completion of the job whichever is later on account of any variation in prices of materials or cost of supervision or due to any other reasons. Claims on account of escalation shall not be liable for arbitration.

- 2.6 Owner reserve their right to award the contract to any Tenderer and their decision in his regard shall be final. They also reserve their right to reject any or all tenders received. No disputes could be raised by any Tenderer(s) whose tender has been rejected.
- 2.7 Employees of the State and Central Govt. and employees of the Public Sector Undertakings, including retired employees are covered under their respective service conditions/rules in regard to their submitting the tender. All such persons should ensure compliance to the respective/applicable conditions, rules etc. Any person not complying with those rules etc. but submitting the tender in violation of such rules after being noticed shall be liable for the forfeiture of the Earnest Money Deposit made with the tender, termination of contract and sufferance on damages arising as a result of termination of contract.
- 2.8 At any time after acceptance of tender, the Owner reserves the right to add, amend or delete any item, the bill of quantities at a later date or reduce the scope of work/supply in the overall interest of the work by prior discussion and intimation to the vendor. The decision of the owner with reasons recorded therefore shall be final binding on both the Owner and the Vendor. The Vendor shall have not the right to claim compensation or damage etc. in that regard. The Owner reserves the right to split the supply items under this contract between two or more Vendors without assigning any reasons.
- 2.9 Vendor shall not be entitled to sublet, sub-vendor or assign, the supply under this contract without the prior consent of the Owner obtained in writing.
- 2.10 All signatures in tender document shall be dated as well as all the pages of all sections of the tender documents shall be initialled at the lower position and signed, wherever required in the tender papers by the Tenderer or by a person holding Power of Attorney authorizing him to sign on behalf of the Tenderers before submission of tender.
- 2.11 The tender should be quoted in English, both in figures as well as in words. The rates and amounts tendered by the Tenderer in the schedule of rates fro each item and in such a way that insertion is not possible. The total tendered amount should also be indicated both in figures and words with the signature of Tenderer.
- 2.12 All corrections and alterations in the entries of tender paper will be signed in full by the Tenderer with date. No erasers or over writings are permissible.

- 2.13 Transfer of tender document by one intending Tenderer to another one is not permissible. The Tenderer on whose name the tender has been sent only can quote.
- 2.14 Bidders are required to submit offer in two parts namely “Technical ” & “Financial”. Each part shall be submitted in separate envelopes marked “Technical”/” Financial” as applicable. Both above envelopes (after duly sealed) are to be kept in a large common envelope and the same is to be submitted by the due date.
- 2.15 If the Bidder is unable to meet the technical specification, they may quote for the closest available substitute giving details of same for Owner’s consideration.

### 3.0 **Deposits**

#### 3.1 **Earnest Money Deposit (EMD)**

The Tenderer will be required to pay 2% of the Bid-value, as earnest money deposit along with the tender by a crossed Demand Draft of any Nationalised Bank in favour of ‘Indian Medicines Pharmaceuticals Co. Ltd.Mohan’.The earnest money deposit will be refunded to non-successful bidders after finalization of the contract.

Note: Public Sector Enterprises and Small Scale Units registered with National Small Scale Industries are exempted from payment of Earnest Money Deposit. Small Scale Units registered with National Small Scale Industries should enclose a photocopy of their registration certificate with quotation to make their quotation eligible for consideration. The registration certificate should remain valid during the period of the contract that may be entered into such successful bidder. Such Tenderer should ensure validity of the Registration Certificate for the purpose.

### 3.2 **Security Deposit**

The Tenderer, with whom the contract is decided to be entered into and intimation is so given will have to make a security deposit @1% of the total contract value in the form of Account Payee crossed Demand Draft of any Nationalised Scheduled Bank drawn in favour of Indian Medicines *Pharmaceuticals Co.Ltd.Mohan* or *Bank Guarantee of any Nationalised Scheduled Bank in the Performa prescribed* within 15days from the date of intimation of acceptance of their tender, failing which the owner reserves the right to cancel the Contract and forfeit the EMD. Security Deposit shall be released after completion of commissioning subject to certification from respective Site In charge /Engg. Dept.

### 4.0 **Inspection**

4.1.0 The material will be subject to inspection by Owner/3<sup>rd</sup> Party as per the relevant codes standards and specification.

4.2.0 Before commencement of dispatch, the goods shall be stamped clear for transportation to project site by the inspector and a note of acceptance will be released by the inspector to the Vendor indicating acceptance of the goods offered by the Vendor for inspection. Only after the release of such note it will be deemed that the goods (or concerned part thereof) are acceptable to Owner/authorized representative of Owner/Engineer-in-Charge.

4.3.0 It shall be the option of owner/authorized representative of Owner/Engineer-in-charge to allow the Vendor to replace the rejected goods or to cancel the order for the goods rejected.

### 5.0 **Warranties & Guarantees**

5.1 Vendor shall warrant to owner that the goods supplied shall give the required operational performance shall be suitable for the service intended and be of the quality specified or of the best grade of their respective varieties if no quality specified and shall conform to the specifications, drawings, samples and other descriptions contained in the Purchase Order.

- 5.2 Vendor shall guarantee the Owner and their authorized representatives against any and all defects in design, workmanship. Materials and performance for a period of eighteen (18) months from the date of supply or twelve (12) months from the date of operation whichever is later. Should any defect develop during the guarantee period, it shall be remedied *promptly* free of charge by the Vendor and all expenses for transportation of goods necessitated for such repairs or replacement shall be borne by the vendor. The goods, unless otherwise expressly stated herein are ordered by Owner in reliance on each and all of the warranties and guarantee specified herein and implied by law or usage of trade.
- 5.3 The above warranties and guarantees shall control even if Vendor's quotation to Owner or acknowledgement or acceptance of this Purchase Order attempts to disclaim the said warranties or guarantees or limits the Owner's remedies fro breach. Acceptance of goods by Owner or their authorized representatives shall not release Vendor from responsibilities arising out of the above mentioned guarantees and warranties.

## 6.0 **Performance Guarantee**

The Vendor shall undertake to be responsible for defective goods supplied by him including shortcomings in the guaranteed qualities and performance

## 7.0 **Insurance**

### 7.1 Transit Insurance

Vendor shall indicate in his offer the transit insurance up to the project site. However, If the same being arranged by owner and the supplier shall intimate to Owner/Insurance Company timely regarding the dispatch details of goods/material. However after the packing crates/boxes are opened at site, should there be any shortage of any quantity of goods due to damage/pilferage in transit the vendor shall immediately replace the lost/damaged goods failing which no payment will be released for the concerned consignment till the replenishment is made to the Owner's full satisfaction.

## **8.0 Discrepancy in Tender Document**

Should there be any discrepancy, inconsistency, error or omission in the Tender Documents, the Tenderer shall bring it to the notice of the Owner/Engineer-in-Charge for necessary clarification/action. In the event of such matters those are referred to later for the decision of the Owner/Engineer-in-charge directing the manner in which the work is to be carried out shall be final and conclusive and the Vendor shall carry out work in accordance with this decision.

## **9.0 Heading/Titles**

All heading & titles/Notices to the clauses, specifications/drawings are solely for the purpose of indicative reference and not as summary of the contents and thus shall not be deemed to be part of the clauses of the contract.

## **10.0 Singular and Plural**

Unless otherwise stated or repugnant to the context the singular shall include plural and vice-versa.

## **11.0 Revision/Changes/Quantity Variation**

11.1 Owner may make in writing any revisions or changes in the particular order, subject to mutual acceptance by both parties including additions to or deletions from the quantities ordered in the specification or drawings.

The vendor shall carry out such revision/changes and be bound by the same terms and conditions to the extent applicable, though the said revisions/changes were not incorporated in the initial order.

11.2 Owner reserves the right to increase or decrease the tendered quantity to any extent or replace specification, drawings, and design of any or every item delete them out at any stage of the work. The Vendor's claim for compensation or damages on account of this shall not be entertained. Such deviation shall be adjusted at the rates contained in the Contract or by issuing variation order(s) at the prevailing market rates, if the rates are not available in the contract.

## 12.0 **Vendor's Liability**

12.1 The Vendor's workmen or employees shall under no circumstances be deemed to be the Owner's employees and the Vendor shall hold himself responsible for any claim or claims which they or their heirs dependents or representatives may have to make for damages or compensation for anything done or committed to be done in the course of carrying out the work covered by this purchase order whether arising on work site or elsewhere and agrees to indemnify Owner against all any such claims or claims made against Owner and all cost as between attorney and owner or proceedings, suit or action which owner may incur or sustain in respect of the same. The Vendor shall also be responsible for compliance of existing laws in respect of his workmen and employees.

12.2 Vendor shall protect, indemnify and keep the owner or their authorized representatives absorbed at all times from and against any and all liability from payment of the amount or any otherwise discharge such lien or claim thereof Owner shall have the right to deduct or retain sum necessary to discharge such lien or claim out of any payment due or to become due from Owner to the Vendor.

12.3 The period of liability of vendor for the supplies includes the performance guarantee period.

## 13.0 **Force Majeure**

- 13.1 Any delay in or failure of the performance of either part hereto shall not constitute default hereunder or give rise to any claims for damage, if any to the extent such delays failure of performance is caused by occurrences such as acts of God or an enemy, expropriation or confiscation of facilities by Government authorities, acts of war, rebellion, sabotage or fires, floods, explosions, riots or strikes. The Vendor shall keep records of the circumstances referred to above and bring these to the notice of the Engineer-in-Charge/Site-in-Charge in writing immediately on such occurrences. The amount of time if any, lost on any of these count shall not be counted for the contract period. On decision of the owner arrived at after consultation with the Vendor, shall be final and binding. Such a determined period of time be extended by the Owner to enable the Vendor to deliver the items within such extended period of time.
- 13.2 If Vendor is prevented or delayed from the performing any of its obligations under this agreement by Force Majeure, then Vendor shall notify Owner the circumstances constituting the Force Majeure and the obligations performance of which is thereby delayed or prevented within seven days of the occurrence of the event.

14.0 **Arbitration**

Disputes, if any ,shall be invariably sorted out by mutual discussions and resolved. In case of disputes, not resolved by this process shall be referred to the Sole Arbitrator, to be appointed by the Managing Director, Indian Medicines Pharmaceuticals Corporation Limited (IMPCL). Based on the recommendations of the Arbitrator, the decision of the Managing Director, IMPCL shall be binding on both the parties.

15.0 **Instruction To Consignee:**

Consignor:

Consignee: *Indian Medicines Pharmaceutical Corporation .Ltd*

For Mohan (via-Ramnagar 244715) Uttarakhand

Purchase Order No:

Net Weight

Gross Weight

Dimensions

Package No

(SI No. of total packages)

Tag/Item No

#### 15.1.0 Despatch:

15.1.1 Unless otherwise specifically advised in writing, goods shall not be dispatched without prior inspection, testing and release notes/materials acceptance certificates issued by Owner/authorized representative of Owner.

Despatch of goods shall be made in accordance with relevant terms of and to destination as stated in the Purchase order. Any change in mode of transport shall be resorted to only after prior approval in writing. Vendor shall ensure despatch of equipment/materials immediately after the same intimate status of despatch by Fax/Telegram to the Owner/authorized representative of the owner.

15.1.2 The goods shall be dispatched on "Freight Paid" basis only, by the most economical and expeditious mode of transport.

15.1.3 The Vendor will note the destination of the Material to be dispatched. Demurrage or other expenses incurred owing to any negligence, delay or default on the part of the Vendor will be to Vendor's account and deducted from his invoice before payment.

#### 16.0 Compliance with Regulations

Vendor shall warrant that all goods and services covered by this conditions shall have been produced, sold, supplied, dispatched, delivered and furnished in strict compliance

with all applicable laws, regulations, labour agreements, working conditions and technical codes and requirements as applicable from time to time. The Vendor shall execute and deliver such documents as may be required to be incorporate in agreements of this character are hereby deemed to be incorporated by these references. The owner and their authorized representatives disown any responsibility for any regularity, contravention or infringement of any statutory regulations in the manufacture of supply of goods/services covered by this order.

## 17.0 Part Order

17.1 Owner reserves the right to accept any tender in whole or in part or reject any or all tenders without assigning any reason.

17.2 Owner shall not be bound to accept the lowest tender and reserves right to accept any or more tenders in part. Decision of Owner in this connection shall be final.

## 18.0 Patents & Royalties

Vendor, if licensed under any patent covering, Equipment, Machinery, Materials or compositions of matter to be used or supplied or methods and process to be practiced or employed in the performance of the process equipment/supplies, agrees to pay all royalties and license fess which may be due with the respect thereto. If any Equipment, Machinery, Material, Composition matters to be used or supplied or methods and process to be practiced or employed in the performance of this the process equipment/supplies, is covered by a patent under which the Vendor is not licensed then the Vendor before supplying or using the equipment, machinery, materials, compositions method or processes shall obtain such licenses, and pay such royalties and license fees as may be necessary for performance of the process equipment/supplies. In the event fails to pay any such royalty or obtain any such license any suit for infringement of such patents which is brought against the Vendor or the Owner as a result of such failure will be defended by the Vendor at his own expense and the vendor will pay any damages and cost awarded to such suit.

## **TECHNICAL SPECIFICATION**

### **1) WASHING MACHINE**

**1 No.**

#### **SUITABLE FOR FRUIT/ VEGETABLE/ LEAFY VEGETABLE/GINGER/LEMON**

- Well designed to thoroughly clean and wash multiple fruits/vegetables like Mango, Ginger, Lemon, (Citrus fruits)litchi, apple, leafy vegetables etc.
- The washer is made of SS 304, confirms to all sanitary norms.
- The washer is designed to handle diverse types of fruits and vegetables without damaging the surface while thoroughly cleaning them.
- Equipped with high pressurized blowing unit with blower air grids to produce strong water agitation which tumble washes different types of fruits & vegetables including leafy, root vegetable.
- The fruits and vegetables are passed through water turbulence which thoroughly washes the dirt off them.
- After the fruits and vegetables are washed, they are picked up by an uplift conveyor where it is again washed with secondary wash system fed by fresh water infeed.  
Out feed conveyor fitted with a specially designed SS slats for conveying fruit/vegetable onto the next stage after washing.
- Fitted with 1 HP geared motor on take off conveyor with AC variable drive of make Danfoss/Siemens. This facilitates adjustment to various quantities/ batch being washed.
- The washer is fitted with water recirculation system with inbuilt filtration. This feature enables the water to be reused. It is fitted with 2 stage filtration system for cleaning of water of external mud, leaves and then the clean water is re-circulated back to the main wash tank.

## 2) HAMMER CRUSHER

1 NO

**Function:** Suitable for crushing Tomato/pineapple/Ginger/apple/carrots/grapes/beetal leaf on continues feed basis thus facilitating high yield juice/pulp extraction.

- The crusher consists of :-
- online washing by Air jet washing arrangement before processing
- SS304 housing with perforated plate at bottom from inside.
- SS304 rotor with serrated blades for crushing of products mounted on SS304 shaft.
- CI rigid bearing Housing with set of bearings.
- SS supporting structure for mounting of bearing housing and chamber.
- Fixed speed drive complete with Electric motor and couplings, guards etc.
- Electric Power Requirement: - 3 H.P.
- Make for Electric Motors- Crompton, Bijli, or equal
- Capacity: 500-1000 kg/hr.

## 3) HOPPER TYPE SCREW PUMP

1 NO

- **Field of Application : Crushed Fruits & Vegetables**
- Hopper type suction inlet allows flow of crushed Fruits & Vegetables coupling rod pushing viscous substances into pumping cavity.
  - For corrosive or hygiene duty all contact parts will be in SS material.
  - Shaft sealing by soft Gland Packing/ Mechanical seal.
  - Capacity : 1000 Kg/Hr.

**4)•HELICOIDAL JUICE EXTRACTOR:**

**1 NO.**

- **The machine is easy to use and clean after use.**  
SUITABLE FOR EXTRACTION OF JUICE FROM VARIOUS FRUITS LIKE CRUSHED
- **Capacity 500 kg/hr (Fitted with SS Frame)**
- GINGER /SHREDDED AMLA/ ORANGE/LEMON/PINEAPPLE/APPLE.
- **Make for Electric Motors- Crompton, Bijli, or equal**
- **The machine incorporates latest spiral screw based design for juice extraction which ensures high yield juice recovery without making it bitter.**
  
- **The machine works on a continuous extraction principle. The crushed hard fruits/peeled citrus fruits are fed from in feed hopper and the machine extracts the juice continuously while the residue is ejected from the end.**
  
- **The sizes of the troughs of the spiral rod get smaller as the material goes more inward. The juice is then extracted to the storage container through the SS sieve.**
  
- **The machine screw pressure can be duly adjusted depending upon the hardness of the fruit being fed. This ensures that even juice from the citrus fruits can be extracted without breaking the seeds and there is no bittering of the juice extracted from oranges, bitter orange, peeled lemons etc.**

## **5) PARTE FILLING MACHINE**

**(SUITABLE FOR CHVYANPRASH, JAM, THICK PASTE, CREAM etc)**

- **Suitable to fill thick viscous liquids with suspended chutney/jam/cream/Chyawanprash**
- **Pneumatically operated, incorporates state-of-the-art technology.**
- **The weight range is easily adjustable by turning of a toggle lever controlled metering device which indicates the exact weight being filled.**
- **Can be operated in both manual (foot operated) and automatic dosing mode.**
- **Easy to dismantle and install, easy to clean, conforms to GMP standards.**
- **Capacity 10-15 Bottle/min OR More**
- **Contact parts in SS 304/316 (Quote separately)  
Make for Electric Motors- Crompton, Bijli, or equal**

**Note:-**

**DQ, IQ & OQ , Fat, MOC Certificate, G.A Drawing of the machine, wiring diagram will be supplied with the machine**

**Items under heading (1 to 5)- vender to quote individually**

**Items or accessories required for complete installation/commissioning-----  
vender to quote individually**

FOR OTHER ITEMS –TENDER WILL BE PUBLISHED SHORTLY

5)