



म.प्र. राज्य लघु वनोपज(व्यापार एवं विकास)सहकारी  
संघ मर्या. खेल परिसर, 74 बंगला, भोपाल  
फोन-2674349, फेक्स नं. 0755- 2552628  
**संक्षिप्त निविदा सूचना**

अधि.क्र.लघु.प्र./निविदा/2007/04 भोपाल, दिनांक 23.07.2007  
लघुवनोपज प्रसंस्करण एवं अनुसंधान केन्द्र भोपाल मे टर्न-की (Turn-  
Key) आधार पर निम्नलिखित मशीनरी/उपकरणों की आपूर्ति तथा स्थापना  
(Installation) हेतु मुहरबंद निविदाएं आमंत्रित की जाती हैं:-

**(क) प्रयोगशाला मशीनरी/उपकरण**

- 1.ब्राइटफील्ड माइक्रोस्कोप विद फ्लोरोसेंस, 2.माइक्रोटोम, 3. डिजिटल पोलेरीमीटर
- 4.माइक्रोवेव ओवन 5.डिजिटल पी.एच.मीटर 6.हरबेरियम केबिनेट
- 7.गैस फलो मीटर फार गैस क्रोमेटोग्राफ इत्यादि ।

**(ख) प्रसंस्करण एवं पैकेजिंग मशीनरी/उपकरण**

- 1.ब्लिस्टर पैकिंग मशीन, 2. हाई स्पीड सेमी ओटोमेटिक केप्सूल फिलिंग मशीन,
- 3.ओटोमेटिक बॉटल/जार एयर जेट व वेक्यूम क्लिनिंग मशीन, 4. आटोमेटिक सैशे/टी बैग मशीन, 5.हैवी ड्यूटी रोटरी टेबलेटिंग स्लिंगिंग मशीन, 6.आटोमेटिक फिल्म व शूगर कोटिंग मशीन, 7. सिंगल स्टेशन स्कू कैपिंग मशीन, 8.पायलट माडल स्प्रे ड्रॉयर यूनिट,
9. स्माल वाटर साफ्टनिंग प्लांट, 10.एल.डी.ओ. स्टोरेज टैंक्स, 11.स्टीम हेडर फार स्टीम ब्यॉलर, 12. पावर जेनसेट 13. फ्ल्युड बेड ड्रायर 14.एयर कंडीशनर 15. स्टीम वायलर चिमनी 16. स्टीम डक्विंग इत्यादि ।

निविदा हेतु फार्म, सामान्य शर्तें व अन्य विवरण इस कार्यालय से 23.07.2007 से कार्यालयीन समय में रूपये 500 नगद अथवा किसी भी अधिसूचित बैंक के मुख्य कार्यपालन अधिकारी ,प्रसंस्करण एवं अनुसंधान केन्द्र, भोपाल के नाम से देय बैंक ड्राफ्ट जमा कर प्राप्त किये जा सकते हैं। प्राप्त निविदाएं "मुख्य कार्यपालन अधिकारी, प्रसंस्करण एवं अनुसंधान केन्द्र, वन परिसर, बरखेड़ा पठानी, भोपाल" के कार्यालय में 04.08.07 अपराहन 3.00 बजे तक जमा की सकती है, जो उसी दिन अपराहन 4.00 बजे उपस्थित निविदाकारों के समक्ष खोली जावेगी। उक्त सूचना कार्यालय के वेबसाइट [www.mfpfederation.com](http://www.mfpfederation.com) पर भी उपलब्ध हैं।

म.प्र./माध्यम/

प्रबंध संचालक

**MINOR FOREST PRODUCE PROCESSING & RESEARCH CENTRE  
VAN PARISAR, BARKHEDA PATHANI, BHOPAL-462021  
TELEFAX: 0755-2417670**

**Cost of Tender Form : Rs. 500/-**

**TERMS & CONDITIONS OF TENDERS FOR NWFP PROCESSING  
/PACKAGING- EQUIPMENTS/INSTRUMENTS & PERIPHERALS**

**IMPORTANT**

1. (i) The Tender documents will be available **from 23.07.2007 TO 04.08.2007** from the **Office of the Chief Executive Officer, MFP Processing & Research Centre, Barkhera Pathani, Bhopal-462021** on payment of Rs.500/- per tender form by Bank Draft payable at Bhopal drawn in favour of "**Chief Executive Officer, MFP Processing & Research Centre, Bhopal**" or in cash during office hours.  
(ii) Tender can be submitted only on the prescribed Tender Form issued by the above mentioned offices. Tender submitted on any other form shall be rejected and declared invalid.  
(iii) Tender document is *non-transferable*. Proof of purchase of document has to be enclosed.
2. (i) The tenders should be submitted in two different sealed envelopes with "**Tender Notice No.MFP-Parc/Tender/Processing/2007/01 and due date 04.08.2007**" written on the envelope. Tender should be clearly typed or hand-written. Out of the two, one envelope marked "**Technical Bid for Processing/Packaging Equipments**". should contain technical details in proforma given in **Annexure III** alongwith supporting documents. The other envelope marked "**Financial Bid for Processing/Packaging Equipments**" should contain financial bid in proforma given in **Annexure-II**, alongwith bank Draft for E.M.D. amount and Tenderer's Agreement in the prescribed format etc. Every correction or overwriting should be signed and rubber stamp put on it .  
(ii) The tenderers must submit one set of tender for each type of the equipment. If he wants to bid for more than one make or one model (of the same make ) he has to use a separate set of tender documents (alongwith separate E.M.D.). For example- A Tenderer can quote for only one type of Make or Machine from single **item code** as given in Annexure I. i.e. in one Tender form, he can quote for machines from all item codes from Annexure- I. However, if the tenderer wants to quote for more than one machine(or Make) for the same item code, he will have to use separate Tender forms. If any tenderer submits bids for more than one type/make /model of the same item code in one set of tender forms, only the lower rate offered will be considered.
3. Envelopes containing Tenders complete in all respects should be submitted at the Federation office till **15:00 hrs on 04.08.2007** or they may be sent by registered post so as to reach the Federation office before the above mentioned time and date. Tenders received after the due date & time will not be considered, in any case.
4. (i) Out of the tenders received till the above mentioned time limit, the envelopes marked "**Technical Bid for Processing/Packaging Equipments**" shall be opened from 16.00 hrs on 26/06/2007 in the office of MFP-PARC, Barkheda Pathani, Bhopal in presence of those tenderers who may be present. After opening of the "**Technical Bid**", these will be analysed and the "**Financial Bid for Processing/Packaging Equipments**" of only those

- makes / models / tenderers will be opened from 17:00 hrs. on 04.08.2007 in the same premises, whose "**Technical Bid**" are found as per our requirements. The decision of opening of Financial Bid will be taken by the Committee constituted for this purpose by the Managing Director, M.P. State MFP Co-Op. Federation Ltd., Bhopal.
- (ii) The Financial Bids of those makes / models / tenders, which are not required to be opened, shall be returned to the concerned tenderer without opening, in due course of time .
5. (i) The tenderer should be a manufacturer/authorised representative of a manufacturer . The equipment offered, must be of the most recent series models incorporating the latest improvements in design.  
(ii) The tenderer should furnish the information on all past supplies.
6. All tenders submitted shall also include the following information along with other prescribed formats. These are to be enclosed along with the "**Financial Bid**"
- a) Tenderer's Agreement form duly completed and signed.  
b) Capability Statement in the proforma given in Annexure IV .  
c) The tenderer should clearly confirm that all the facilities exist in his factory for inspection and testing and these will be made available to the Purchaser or his representative for inspection;  
d) Details of Service Centres and information on service support facilities that would be provided after the warranty period.
7. The submission of tender will be deemed to be the unconditional acceptance of the terms and conditions of the tender contained herein.
8. The tenderer shall bear all costs associated with the preparation and submission of his bid, and M.P. State Co-op. M.F.P. Federation will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.
9. Tender should be complete with terms and conditions of supply. Conditions printed on the back of the tender offer submitted by the tenderer will not be binding unless separately mentioned and accepted as such by the Federation.
10. Offer would be valid for at least 90 days from the date of opening of the tender.
11. **Managing Director, M.P.State Minor Forest Produce (T&D) Co-op Fed. Ltd., Bhopal reserves the right to reject all or any one of the offers/tenders without assigning any reason.**
12. **The tender must be accompanied by complete details of configuration / specifications of each item quoted in the proforma given in Annexure III and duly supported by the catalogue /leaflets /Pamphlets showing technical details etc. The term "as per your specification" should not be used in Technical Bid and the same will not be accepted. The item code to be quoted in the Technical Bid or Financial Bid must be the same as given in Annexure I.**

**RATES AND TAXES : (Please read carefully before quoting the rates).**

13. The details of the configuration of Processing/Packaging equipments/instruments are given in **Annexure I** and the rates should be quoted in accordance with these details, in the proforma given in **Annexure II ( Financial Bid)**.
14. In case of deviation from the details mentioned in **Annexure I**, mention should be clearly made in the tender form at the appropriate place in **Annexure III**, as per condition 12 above.
15. The price should be quoted F.O.R. Van Parisar, BHEL Area, Barkhera-Pathani Centre, Bhopal office inclusive of packing, forwarding, freight, insurance, excise duty, installation charges etc. No additional amount will be paid except the Central Sales

- Tax/M.P. Sales Tax/VAT which should be specified clearly in the tender. Any extra amount which is not clearly & definitely mentioned in the tender shall not be paid.
16. The unit price quoted should be firm and one only for each item. However if there are more than one models conforming to the specification, the rates for each model should be quoted separately on a separate set of tender documents. The rate should not be subject to any stipulated condition/options offered. While quoting the rates for any item no choice for different makes/different configurations should be offered.
  17. If any Additional features/components are available in the quoted machinery, their rate should be mentioned separately in the tender form alongwith details of such feature/components. However, no weightage will be given for additional facilities or features.
  18. In case the equipments/systems are available on D.G.S. & D rate contract and are offered as such for supply, the supplier should furnish a copy of the rate contract alongwith the tender and also state this fact against such equipment/systems.
  19. If necessary, Sales Tax and Income tax will be deducted from the bill and be paid by this office to the concerned department and a certificate to this effect, will be given to the supplier. Form "D" or any other appropriate form will be issued by the consignee for charging Central Sales Tax at the time of making final payments (Forms to be provided by the supplier).

**EARNEST MONEY:**

20. **Each tenderer is required to furnish an Earnest Money Deposit equal to 2% of the price quoted** as per condition 15 above, through crossed bank draft of any nationalised bank in favour of **Chief Executive Officer, MFP Processing & Research Centre, Bhopal** payable at **Bhopal**.
21. Tenders not accompanied by E.M.D. will not be considered and will be rejected.
22. The successful bidder will have to deposit a performance guarantee money through bank draft equal to 5% of the total amount of equipment/system within 15 days from the date of issue of acceptance letter by the Chief Executive Officer, MFP Processing & Research Centre, Barkhera Pathani, Bhopal securing supply order for the items quoted. The EMD amount submitted alongwith the tender can be adjusted against this amount on a request by the successful tenderer at that time.
23. In case of non-acceptance of tender, the Earnest Money Deposit will be refunded to the unsuccessful tenderers, in due course of time.
24. The entire amount of earnest money/performance guarantee money will be forfeited in case the supplier either expresses his inability to supply or does not execute the order for the quoted items within the delivery period mentioned in the order or within the extended period in special case at the discretion of the undersigned.
25. **Supply of Processing & Packaging machinery/ equipments.**  
The processing & Packaging machinery/ equipments should be made available duly installed/inspected in satisfactory mode of working at the centre within 30 days of the date on which a letter has been issued from the office of the CEO, MFP-PARC, Barkhera Pathani, Bhopal for the supply of equipments / machinery duly posted to the tenderer on the address as given in Tender form. All correspondence made on the address as given in the Tender form by the successful tenderer will be deemed receiptance by the tenderer.
26. **Termination for Default**  
The **Chief Executive Officer, MFP Processing & Research Centre, Barkhera Pathani, Bhopal** or Federation may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or part:

- (a) if the Supplier fails to deliver any or all of the Goods within the period(s) specified in the Contract, or within any extension thereof granted by the Federation ; or
- (b) if the Supplier fails to perform any other obligation(s) under the Contract.
- (c) if the Supplier, in the judgement of the **Chief Executive Officer, MFP Processing & Research Centre, Barkhera Pathani, Bhopal or** Federation has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

For the purpose of this Clause :

“Corrupt practice” means the offering, giving, receiving or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution.

“fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Federation, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Federation of the benefits of free and open competition.

- 27. If defect of any kind or deviations from specifications in items are detected and reported to the supplier, he should effect replacement or rectify the defects free of any charge within 20 days from the date of report, failing which the item will not be accepted and will be returned to the supplier at his own cost and risk and entire earnest money/performance guarantee money will be forfeited. However, the under-signed may condone the delay in exceptional, deserving and genuine cases where the time limit of 20 days is not adhered to.
- 28. The performacne guarantee money shall be refunded to the successful tenderer on the expiry of 3 months after the date of successful installation of the equipment subject to their working properly for the above period.

#### **GUARANTEE AND MAINTENANCE :**

##### **29. Inspections and Tests**

(i) The Federation or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Federation. The Federation shall notify the Supplier, in writing in a timely manner, of the identity of any representatives retained for these purposes.

(ii) The inspections and tests may be conducted on the premises of the Supplier and/or at point of delivery . If conducted on the premises of the Supplier , all reasonable facilities and assistance, including access to drawings and production data - shall be furnished to the inspectors at no charge to the Federation.

(iii) Should any inspected or tested Goods fail to conform to the specifications, the Federation may reject the goods and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Federation.

**(iv) The Chief Executive Officer, MFP Processing & Research Centre, Barkhera Pathani, Bhopal or Federation’s right to inspect, test and, where necessary, reject the Goods after the Goods’ arrival at Federation office shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by the Federation or its representative prior to the Goods shipment.**

(v) Nothing in this clause shall in any way release the Supplier from any warranty or other obligations under this Contract.

30. **Incidental Services** - Prices charged by the Supplier for incidental services, should be separately and clearly mentioned in the tender .
31. All the above processing equipment/instruments, manufacturer should have any of the following certifications, in respect of the product quoted, which must be furnished alongwith the tender.

**1. ISO 9000 Certification**

**2. BIS Certification**

**3. Any other certification from recognised agency.**

33. *The supplied system /equipment/ operating system should be accompanied by the operational/ Instructions/ operational diagram/ manual/booklet and warranty papers etc.*
34. The Supplier shall be responsible for all unpacking, assemblies, wiring, installations, cabling between hardware units and connecting to power supplies. The Supplier will test all system /hardware operations and accomplish all adjustments necessary for successful and continuous operation of the hardware at all installation sites.
35. The Supplier will accomplish preventive and breakdown maintenance services to ensure that all system/hardware works without defect or interruption for 95% uptime for 24 hours a day, 7 days a week of operation of the unit. If any critical component of the configuration is out of service for more than three days, the Supplier shall either immediately repair the defective unit or replace it at its own cost. The Supplier will respond to a site visit and commence repair work on the equipment within 24 hours of being notified of equipment malfunction.
36. **Training**  
For each unit system component installed, the Supplier is required to train the designated Federation's technical and end-user personnel to enable them to effectively operate.

**PAYMENTS**

37. Payment for Goods and Services shall be made as follows:  
*On Delivery:* 80% of the payment excluding maintenance *and/or* repair charges shall be paid within 30 days of delivery, successful installation, commissioning, training and after acceptance of machines/equipment on submission of documents.  
*On Final Acceptance:* The remaining balance 20% of the payment shall be paid within after the expiry of warranty period or against submission of the unconditional performance bank guarantee valid for a period of one year of the Acceptance of Certificate issued by the Federation's representative for the respective delivery, commissioning and training and upon submission of documents .
38. No advance payment either with order or against R/R or delivery chalan will be made to the supplier in any case. Hence the supplier should not stipulate condition of advance payment or offer any discount on payment in time limit either. The terms of payment are neither negotiable nor conditional. Payment shall be made after successful installation of the machines in working condition.
39. Any delay in supply will entail liquidated damages at the rate of 0.5% of the cost of delayed goods for each week of delay. If the delay is for more than 8 weeks, the order shall be subject to unilateral termination and consequential action at the discretion of the Chief Executive Officer, MFP Processing & Research Centre, Barkhera Pathani, Bhopal **or** Managing Director, M.P. State Minor Forest Produce (T&D) Co-operative Federation. In case of termination for default or non compliance with the terms of the contract the

performance security shall be liable to be forfeited. Federation shall then be free to procure the goods and services from any other source and the supplier shall be liable to make good any extra costs that the purchaser may have to incur on the procurement of similar goods and services from alternate sources.

**GENERAL**

40. The quantity given in the tender for each item may be increased or decreased at the discretion of the undersigned at any time.
41. The Tenderer may be asked to provide detailed technical specifications of tendered items, as and when required for processing of Tender.
42. Exact and earliest possible time of delivery should be indicated in the tender. The due delivery date given in the order will be the date of receipt of material in the Federation and not the date of despatch of material by the supplier.
43. Tenderer should submit the current Sales Tax and Income Tax clearance certificates in original or attested photostat copies thereof.
44. Any dispute arising out of this tender/contract, shall be subject to the jurisdiction of courts in Madhya Pradesh.
45. Supplier should attach the complete list of customers where similar equipment have been installed/supplied alongwith the **Technical Bid** .
46. If required, the representatives of the tenderers may be called for discussions, the date and time or which will be intimated accordingly.

**Managing Director**  
**M.P. State MFP(T & D) Co-Op. Fedn.Ltd.,**  
**Bhopal**

ANNEXURE-I

PROCESSING & PACKAGING EQUIPMENTS/ INSTRUMENTS' SPECIFICATIONS

*Note: Please attach one copy of the catalogue/photo/Detailed Instruction booklet and brand specifications with the tender.*

**ITEM CODE**

**A.1 Blister packing machine**

Automatic Blister packing machine comprising of fabricated body, built in control panel, Rotary motion film heating system, foil and film reel holders, thermoforming station with vacuum, viratry feeder, Pressure sealing roller with engraved pattern, batch coding printing unit, and one complete change part to suit any one size of tablets/capsules/ tabsules.(GMP Model).

**Packing materials** : Film width max. 120mm

(Base PVC film): Film thickness max. 0.2 to 0.3 mm.; Reel dia max.440mm.

**Lidding Material Alu. foil** : Foil width max.116mm; Foil thickness max.0.02 to 0.03; Foil dia max.210mm.

**Format range:** Min. 120x25mm.; Max. 120x102mm.

(Total Forming area)

**Pack size:**Pack length : Max.100mm; Pack width max. 100mm; Forming depth max.10mm.

**Output** : 1000 tab or cao./per min(100 strip)

**Power requirement** : 4.5 KVA, 3 Phase

with Additional set of change parts:

- i) Blister forming rollers ii) Counter sealing roller iii) Feed bowl
- iv) Feed channel v) Guide track vi) Cutting punch

**A.2 L.D.O. Storage Tanks**

**i) Cap. 6000litres - One No.**

approximate length 3.67 Meters x diam. 1.60 Meters; cylindrical in shape having overall cap. 7500 litres & storage cap. 6300 litres; made of M.S. plates of 4mm thickness; fitted with air vent, oil level indicator, pressure gauge, temperature gauge, 2 oil inlets of diam 75mm and one outlet diam of 25mm; electric driven oil pump of total head 10 meters, overflow and drain plugs, lifting logs/hooks and suitable M.S. structure so as to keep the tank at about 0.3 Meter from ground level, with ladder of suitable height attached.

**ii) Cap. 12000litres - One No.**

approximate length 4.877 Meters x diam. 1.985 Meters; cylindrical in shape having overall cap. 15000 litres & storage cap. 12700 litres; made of M.S. plates of 6mm thickness; fitted with air vent, oil level indicator, pressure gauge, temperature gauge, 2 oil inlets of diam 75mm and one outlet diam of 25mm; electric driven oil pump of total head 10 meters, overflow and drain plugs, lifting logs/hooks and suitable M.S. structure so as to keep the tank at about 0.3 Meter from ground level, with ladder of suitable height attached.

**A.3 Automatic Tea bag machine ( for fanning and small BOPP)**

for automatic packing of tea in heat-seal filter paper tea bags with thread and tags; may need only one operator.

**Sachet cap.:** 2 gm.

**Materials:** Fannings or BOPP ;

**Filter paper:** Heat sealing 16.5g/m<sup>2</sup> Width: 125mm, Max.Internal diam:500mm, Outwards heat sealing surface, 1 Kg. should be enough for 9600 tea bags.

**Glue:** Dispersion of polyvinyl acetate, quick drying , viscosity: 1600-2800 Cp

(According to Brookfield with spindle 3 to 20 rpm 25<sup>0</sup> , 1 kg producing 70000 tea bags.

Output: 110 tea bags per minute;

Power consumption: 0.5 HP- 400w(Approximately)



**A.4. Small water softening plant Capacity 2000 litres and above.**

**A.5. HIGH SPEED SEMI AUTOMATIC CAPSULE FILLING MACHINE**

for the filling of two piece hard gelatin capsules 20 TO 25 THOUSAND CAPSULES PER HOUR with speed choice in powder hopper.

Technical details :

All contact parts of stainless steel 304 quality and Phospo bronze.

Diam of filling ring : 11.5"; made of aluminium alloys.

Electrical motors : 1.5 HP, 440 volts, 3 Phase, 50 Hz

Compressed air : 5-7 Kg/Sq.cm. at 142 Lts/min. (& 0-100 psi. at 5 CFM)

Vacuum required : 380 mm to 500 mm of Hg at 1000 Lits./per min.

with one set of change parts as

a) Filling rings 2 Nos. b) Peg ring 1 No. c) Rectifier raceway 1 No. d) Rectifier block 1 No. e)

Capsule slide 1 No. f) Magazine with gate knee 1 No. g) Push blade 1 No.

Production speed (20,000 to 25000 Capsules per hr.); The Machine should also be very easy to operate with Very low size change over and cleaning times with inbuilt Functional & safety controls. Complete with one set of change parts for specified one size of capsules with S.S. Medium fill augur; EXTRA CHANGE PARTS FOR DIFFERENT SIZE OF CAPSULES; extra stirrer assembly, vacuum pump, compressor, S.S. low fill augur, SS high fill augur, Recommended spares for atleast two years.

**A.6. AUTOMATIC BOTTLE/JAR AIR JET & VACCUM CLEANING MACHINE WITH IN-BUILT 750 mm Dia TURNTABLE,**

Output: 40 to 60 per min

Bottle Dia: - 35 to 75 mm Height: - Max. 150 mm Neck Dia: - 20 to 38 mm

Dust collector box with exhaust Fan

Air Filter & Regulator

Pressure Switch

Visual pre-clean inspection-cum-loading

**A. 7. SINGLE STATION SCREW CAPPING MACHINE**

Output: 40 per min

For change over of each size

BOWL

DISCHARGE CHUTE

STAR PLATE

DIE OF CAP FOR EACH STATION

**A.8. Heavy Duty Rotary Tableting Slugging Machine fitted on M.S. Stand.**

with hopper for continuous feeding, pressure adjustable by lever system.

Output : Min. No.10800/Max.15500 per hour

1. Round shape (Material OHNS) - 1 No.

2. Oval shape - 1 No.

Max. Tablet dia : 40mm; Max. depth of fill 30 mm.

Operating Force : 12 Tons

Electric Motor : 3 HP, 960 RPM, 440 volts, 3 phase.

**Salient Features : with,**

Turret mechanized grade casting & centre pillar made by MS steel.

Key slots essential for shaped tooling provision in turret.

Friction plates fitted on upper cam plate & hopper lids to be supplied as std. supply.

Turret of SG IRON 400/12 grade casting.

Very rigid gun metal feed frame (Both identical) with sufficient height to avoid spill over of powder.

Fly over on upper punch should be provided to avoid jumping of upper punches.

Feed frame setting time should be least.

All columns and nuts should be electroplated.

Oil groove on top face of turret for collection for excess oil.

**A.9. FLUID BED DRIER:**

Working Capacity :40-80 Kgs., Bowl Volume (ltr.): 220 Ltrs.  
Steam at 2-4 Kg. /cm<sup>2</sup> Dry and saturated 50-70 Kg. /Hr.  
Compressed air at 6 Kg. /cm<sup>2</sup> dry ; Blower Capacity 1836 m<sup>3</sup>/Hr.  
Blower Developed Process 600mm (24”), Blower motor 10 HP  
Electricity 440 V /3 Ph / 50 Cycles / AC  
MOC Contact Parts SS 316 / Non Contact Parts SS 304  
FBD-60 Kgs.

**Main Dryer:**

The main equipment should be made of SS 316, single piece having 60 Kgs. Capacity complete With steam arrangement, retarding chamber, pneumatically operated rubber gasket for lifting and sealing of product container, automatic shaking arrangements, positive earthing device with interlocking filter bag, steam heater, washable filter, pre-filter, motor blower, temperature controller, explosion vent, pneumatic operating steam valve, product container with trolley etc.,

**Options:**

**Safety Locking Device:**

Pneumatically operated safety auto locking system is provided for the product (2 Nos.) Container, with interlocking arrangement which will hold container flanged joints continuously to prevent any leakage during operation. This locking arrangement is an extra Safety measure against any explosion.

**Fluidization Controller:**

An auto damper position controller operated pneumatically should be provided on the suction air SS ducting of the blower to control the pattern of fluidization.

**Extra Controller:**

Additional 1 No. SS 316 product container with trolley which is of tubular construction made From SS 316 pipe mounted on polypropylene castor wheel which imparts rigidity to carry the Product container with the charged load.

**Hepa Filter:**

Hepa filter with stainless steel casing.

**PLC System:**

Programmed Logic Controller System.

**Differential Pressure Gauge:**

Differential pressure gauge (3 Nos.) should be provided to monitor the pressure drop across air Filters, blower, filter bags and product container bottom net.

**Silencer:**

A silencer should be provided after the blower to control the sound pollution within the prescribed Limit of the pollution board.

**FLP Motor:**

FLP Motor with FLP fittings

**A.10. AUTOMATIC FILM AND SUGAR COATING MACHINE (AUTO COATER):**

**MAIN PAN UNIT:-**

CAPACITY – 40 to 80 Kgs., PAN DIA – 940mm (PERFORATED 3mm HOLE SIZE).  
PAN MOUTH DIA – 400mm., PAN RPM – 1 TO 15 (VARIABLE).  
PAN MOC – S.S. 316., PAN CABINET – S.S. 304.  
HOT AIR SUPPLY HOOD – S.S. 304., EXHAUST AIR HOOD – S.S. 304.

**HOT AIR UNIT:-**

AIR FLOW – 1450 CFM AT 8” WG., HOT AIR BLOWER MOC – S.S. 304.  
HOT AIR BLOWER IMPELLER MOC –ALUMINIUM, HOT AIR UNIT COIL MOC–S.S. 304.  
HOT AIR DUCTING –S.S.304., HOT AIR BLOWER MOUNTING – ANTI VIBRATORY PAD.  
HOT AIR FILTERS – COURSE – 20 MICRON + FINE – 5 MICRON + HEPA 0.3 MICRON.  
HOT AIR FILTER HOUSING – S.S. 304.

**EXHAUST AIR UNIT:-**

AIR FLOW–1800 CFM AT 8” WG, EXHAUST AIR BLOWER MOC – M.S. EPOXY PAINTED.  
EXHAUST AIR BLOWER IMPELLER MOC–ALUMINIUM, EXHAUST AIR DUCTING – S.S.  
EXHAUST AIR BLOWER MOUNTING – ANTI VIBRATORY PAD.

MOTOR / GEAR BOX / DRIVES:-

**MAIN PAN UNIT**

**GEAR BOX:**

# TYPE / MODEL – AS PER DESIGN.

**DRIVE:**

# FREQUENCY VARIATOR – (A.C.). # PAN RPM – 1 TO 15. # FREQUENCY VARIATOR.

**HOT AIR BLOWER:**

MOTOR: # TYPE – FLAME PROOF., # H.P. – 2., # RPM –1440(TO GET PAN RPM 1 TO 15)

**MOTOR:**

# TYPE – FLAME PROOF. # H.P. – 3. # RPM – 2880.

**EXHAUST BLOWER MOTOR:**

# TYPE – FLAME PROOF., # H.P. – 5. # RPM – 2880.

CONTROL PANEL / PLC (OPTIONAL)

CONTROL PANEL MOC – S.S. 304.

PLC MAKE – HIGH CAPACITY.

PLC FUNCTION

# RPM DISPLAY., # TEMP. DISPLAY / CONTROL. # SPRAY ON / OFF CONTROL.

# SPRAY – TIME TOTALISER., # LOW / HIGH TEMP. INDICATION AND ALARM.

# LOW COMPRESSED AIR INDICATION AND ALARM., # HOT AIR / EXHAUST AIR BLOWER

INTERLOCKING., # 80 COLUMN PRINTER TO GIVE TEMP AND SPRAY ON / OFF, SPRAY TIME

TOTALISER

PRINTOUT (WITH BATCH NO. AND DATE / TIME).

# PRODUCT WISE PARAMETER / PROGRAMMING MEMORY.

POWER PANEL:

MOC – M.S. EPOXY PAINTED., POWER PANEL COMPONENTS.

SOLUTION HOLDING TANK:

CAPACITY – 50 LTRS., MOC – S.S. 316 ON POLYPROPELENE WHEELS.

MOUNTING – ON POLYPROPELENE WHEELS., AGITATOR – PNEUMATIC.,

INDICATOR – LEVEL INDICATOR.

SPRAYING SYSTEMS:-

SPRAY GUNS – 2 NOS., SPRAY MAKE – BINKS (ENGLAND, U.K.).

PERISTALTIC PUMP MAKES – WATSON MARLOW., PERISTALTIC PUMP DRIVE – ELECTRIC.

PNEUMATIC FITTINGS – FESTO MAKE.,

SOLUTION CONVEYING TUBING – MARLPURNE / SILICON.,

TELFON COATED – FLEXIBLE PIPING – S.S. 316.

**A.11. Pilot model spray dryer : 5-7 kgs/per hr.(Indoor Installation) complete.with S.S. AISI 316**

original 2B finish on the plates and weld lines ground smooth to 180 grit sanitary design; with drying chamber, Atomizer, Air heating equipment, Liquid feeding equipment, Product collection system Exhaust duct, Power & Control panel, hot air inlet and outlet temperature indicator/controller, mimic diagram with lamps, U tube manometer to indicate chamber vacuum.

Inlet air temp. : 260 deg C.

Outlet air temp. : 90 deg.C.

Heat source & heating method. : Electrical air heater.

Flow between spray and hot gas : Pressure and Two fluid Compressed Air Nozzle systems.

"Blow down" powder collection at the bottom of cyclone-single point discharge and alternatively two point discharge i.e. at the bottom of the chamber and cyclone.

**A.12. Power Genset - One No.(Diesel)**

Capacity 10 to 15 Kw

**A.13. Steam Header - 1 No.**

Made up of seamless/ERW Class"C" M.S.; internal diam. not less than 100mm with one end heavily plugged and at the other end fabricated & fitted with the pressure reducing valve made of GM; suitable to regulate steam pressure maximum 10.5 kg/sq.cm. to minimum 1 Kg./sq. cm. and fraction of it; with suitable size of inlet for steam direct from boiler; header to accomodate the accessories like 4 steam outlets(One of 12mm and three of 25mm NB), with suitable Globe valves made of GM, one suitable pressure gauge, suitable steam trap.

**A.14. AIR CONDITIONER- 2 No.**

Vertical, 2 Ton Capacity of Branded make.

- A.15. STEAM BOILER CHIMNEY - 1 No.**  
Wall thickness 4 mm,  
Dia - 200 mm  
Height - 50 - 55 ft.  
with Side Tie Ropes, Exhaust fan, Vent for cleaning etc.
- A.16. STEAM DUCTING WITH INSULATION- 1 No.**  
Piping Fabrication & fittings (Erection)

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**ANNEXURE - II  
( FINANCIAL BID )**

**TENDER FORM FOR SUPPLY OF PROCESSING & PACKAGING  
EQUIPMENTS/INSTRUMENTS AND PERIPHERALS**

To,  
**The Chief Executive Officer,  
MFP Processing & Research Centre,  
Barkhera Pathani, Bhopal- 462021.**

With reference to your Tender notice No. \_\_\_\_\_ dated \_\_\_\_\_  
for supply of PROCESSING EQUIPMENTS/INSTRUMENTS AND PERIPHERALS,  
I/we .....(Name)  
of ..... ( Company ) , Father's name  
.....Post ..... District  
..... State ..... submit our proposed rates of supply as per details  
given below inclusive of all taxes , FOR destination , charges for installation and  
commissioning of equipment :-

Item Code	Name of the Item	Model No.	Unit	Rate in Figures	Rate in words

Date .....

Signature .....

Full Name of the Tenderer .....

Complete Address .....

.....

**ANNEXURE - III**  
**( Technical Bid )**

**TENDER FORM FOR SUPPLY OF PROCESSING  
EQUIPMENTS/INSTRUMENTS AND PERIPHERALS**

To,  
**The Chief Executive Officer,**  
**MFP Processing & Research Centre,**  
**Barkhera Pathani, Bhopal- 462021.**

With reference to your Tender notice No. \_\_\_\_\_ dated \_\_\_\_\_  
for supply of PROCESSING/PACKAGING EQUIPMENTS/INSTRUMENTS AND  
PERIPHERALS, I/we.....  
..... (Name) of .....  
..... ( Company ) , Father's name .....  
.....Post ..... District .....  
State ..... submit our technical bid for supply of following items as per  
specifications mentioned in Annexure I :-

<b>Item Code</b>	<b>Name of the Item</b>	<b>Brand Name</b>	<b>Model Name</b>	<b>Brief description alongwith operational functions</b>

<u>Item Code</u>	<u>Name of the Item</u>	<u>Brand Name</u>	<u>Model Name</u>	<u>Brief description alongwith operational functions</u>

Date .....

Signature .....

Full Name of the Tenderer .....

Complete Address .....

.....

.....

Telephone No.....

Fax No. ....

e-mail:.....

**ANNEXURE - IV**

**CAPABILITY STATEMENT (CS)**

1. Name & Address of the Tenderer:

Phone:

2. Classifications (1) Manufacturer  
(2) Authorised Agent  
(3) Dealer  
(4) Others (please specify)

3. Plant: (a) Location  
(b) Description, Type & size of building  
(c) Is property on lease or free hold? If on lease indicate date of expiry of lease in such case

4. Type of machinery/equipment manufactured and supplied during last 2 years.

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Name of machinery/ equipment	Nos. manufactured	Nos. of orders on hand
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5. Details of testing facilities available

- a) List testing equipment available.
- b) Give details of tests, which can be carried out on items offered.
- c) Details of the testing organisation available.

6. Brief description of the Tenderer's organisation:  
(May attach Company's profile)

7 Names, addresses and phone numbers of two buyers to whom similar equipment/instrument was supplied in the past and to whom reference may be made by the purchaser regarding the tenderer's technical and delivery ability.

Name	Address	Phone No.
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1)

2)

Signature.....

Date:

Name of the Tenderer.....

Address.....

Place.....

Tel. No.....

e-mail:.....

## TENDERER'S AGREEMENT FORM

1. I/We ..... hereby declare that I/We have read and understood all the terms and conditions of the Tender notice No..... dated .....and agree to abide by the same .

2. I/We enclose herewith Bank Draft No. .... Dated ..... for Rs. .... (in figures ) Rupees ..... (in words ) drawn on ..... (Bank) in favour of Chief Executive Officer, MFP Processing & Research Centre, Bhopal payable at Bhopal (M.P.) as Earnest Money Deposit . The same may be adjusted towards the Performance Guarantee in case my/our tender is accepted by the Federation/MFP PARC.

3. I/We agree to supply the tendered Processing & Packaging Equipments/Instruments and Peripherals (including installation complete on turn-key basis) within 30 days from the date of issue of supply order.

4. In the event of my/our failure to abide by the conditions of this agreement and all the terms and conditions of the tender notice referred to in para 1. above, I/We ..... shall be liable to pay such penalty, as may be leviable under the terms and conditions of the tender notice .

Date .....      Signature .....

   Full Name of the Tenderer .....

   Complete Address

   Telephone No. ....

   Fax / Pager / Mobile No. ....

   e-mail:.....

**Witnesses :**

1. Signature.....

    Name .....

    Address .....

2. Signature.....

    Name .....

    Address .....

**MINOR FOREST PRODUCE PROCESSING & RESEARCH CENTRE  
VAN PARISAR, BARKHEDA PATHANI, BHOPAL-462021  
TEL: 0755-2417670**

**Cost of Tender Form : Rs. 500/-**

**TERMS & CONDITIONS OF TENDERS FOR LABORATORY  
EQUIPMENTS/INSTRUMENTS & PERIPHERALS**

**IMPORTANT**

1. (i) The Tender documents will be available **from 23.07.2007 TO 04.08.2007** from the **Office of the Chief Executive Officer, MFP Processing & Research Centre, Barkhera Pathani, Bhopal-462021** on payment of Rs.500/- per tender form by Bank Draft payable at Bhopal drawn in favour of "**Chief Executive Officer, MFP Processing & Research Centre, Bhopal**" or in cash during office hours.  
(ii) Tender can be submitted only on the prescribed Tender Form issued by the above mentioned offices. Tender submitted on any other form shall be rejected and declared invalid.  
(iii) Tender document is *non-transferable*. Proof of purchase of document has to be enclosed.
2. (i) The tenders should be submitted in two different sealed envelopes with "**Tender Notice No.MFP-Parc/Tender/2007/03/04 and due date 04.08.2007**" written on the envelope. Tender should be clearly typed or hand-written. Out of the two, one envelope marked "**Technical Bid for Laboratory Equipments**". should contain technical details in proforma given in **Annexure III** alongwith supporting documents. The other envelope marked "**Financial Bid for Laboratory Equipments**" should contain financial bid in proforma given in **Annexure-II**, alongwith bank Draft for E.M.D. amount and Tenderer's Agreement in the prescribed format etc. Every correction or overwriting should be signed and rubber stamp put on it .  
(ii) The tenderers must submit one set of tender for each type of the equipment. If he wants to bid for more than one make or one model (of the same make ) he has to use a separate set of tender documents (alongwith separate E.M.D.). For example- A Tenderer can quote for only one type of Make or Machine from single **item code** as given in Annexure I. i.e. in one Tender form, he can quote for machines from all item codes from Annexure- I. However, if the tenderer wants to quote for more than one machine(or Make) for the same item code, he will have to use separate Tender forms. If any tenderer submits bids for more than one type/make /model of the same item code in one set of tender forms, only the lower rate offered will be considered.
3. Envelopes containing Tenders complete in all respects should be submitted at the MFP-PARC, Barkhera Pathani, Bhopal office till **15:00 hrs on 04.08.2007** or they may be sent by registered post so as to reach the MFP-PARC, Barkhera Pathani, Bhopal office before the above mentioned time and date. Tenders received after the due date & time will not be considered, in any case.
4. (i) Out of the tenders received till the above mentioned time limit, the envelopes marked "**Technical Bid for Laboratory Equipments** " shall be opened from 16.00 hrs on 04/08/2007 in the office of the Chief Executive Officer, Minor Forest Produce Processing & Research Centre, Barkhera Pathani, Bhopal in presence of those tenderers who may be present. After opening of the "**Technical Bid**", these will be analysed and the

- "Financial Bid for Laboratory Equipments "** of only those makes / models / tenderers will be opened from 16:15 hrs. on 04.08.2007 in the same premises, whose **"Technical Bid"** are found as per our requirements. The decision of opening of Financial Bid will be taken by the Committee constituted for this purpose by the Managing Director, M.P. State MFP Co-Op. Federation Ltd., Bhopal.
- (ii) The Financial Bids of those makes / models / tenders, which are not required to be opened, shall be returned to the concerned tenderer without opening, in due course of time .
5. (i) The tenderer should be a manufacturer/authorised representative of a manufacturer . The equipment offered, must be of the most recent series models incorporating the latest improvements in design.  
(ii) The tenderer should furnish the information on all past supplies.
6. All tenders submitted shall also include the following information along with other prescribed formats. These are to be enclosed along with the **"Financial Bid"**
- a) Tenderer's Agreement form duly completed and signed.  
b) Capability Statement in the proforma given in Annexure IV .  
c) The tenderer should clearly confirm that all the facilities exist in his factory for inspection and testing and these will be made available to the Purchaser or his representative for inspection;  
d) Details of Service Centres and information on service support facilities that would be provided after the warranty period.
7. **The submission of tender will be deemed to be the unconditional acceptance of the terms and conditions of the tender contained herein.**
8. The tenderer shall bear all costs associated with the preparation and submission of his bid, and MFP-PARC, Barkhera Pathani, Bhopal will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.
9. Tender should be complete with terms and conditions of supply. Conditions printed on the back of the tender offer submitted by the tenderer will not be binding unless separately mentioned and accepted as such by the Federation.
10. Offer would be valid for at least 90 days from the date of opening of the tender.
11. **Managing Director, M.P.State Minor Forest Produce (T&D) Co-op Fed. Ltd., Bhopal reserves the right to reject all or any one of the offers/tenders without assigning any reason.**
12. **The tender must be accompanied by complete details of configuration / specifications of each item quoted in the proforma given in Annexure III and duly supported by the catalogue /leaflets /Pamphlets showing technical details etc. The term "as per your specification" should not be used in Technical Bid and the same will not be accepted. The item code to be quoted in the Technical Bid or Financial Bid must be the same as given in Annexure I.**

**RATES AND TAXES : (Please read carefully before quoting the rates).**

13. The details of the configuration of **Laboratory Equipments** are given in **Annexure I** and the rates should be quoted in accordance with these details, in the proforma given in **Annexure II ( Financial Bid).**

14. In case of deviation from the details mentioned in **Annexure I**, mention should be clearly made in the tender form at the appropriate place in **Annexure III**, as per condition 12 above.
15. The price should be quoted F.O.R. MFP-PARC, Van Parisar, BHEL Area, Barkhera-Pathani Centre, Bhopal office inclusive of packing, forwarding, freight, insurance, excise duty, installation charges etc. No additional amount will be paid except the Central Sales Tax/M.P. Sales Tax/VAT which should be specified clearly in the tender. Any extra amount which is not clearly & definitely mentioned in the tender shall not be paid.
16. The unit price quoted should be firm and one only for each item. However if there are more than one models conforming to the specification, the rates for each model should be quoted separately on a separate set of tender documents. The rate should not be subject to any stipulated condition/options offered. While quoting the rates for any item no choice for different makes/different configurations should be offered.
17. If any Additional features/components are available in the quoted machinery, their rate should be mentioned separately in the tender form alongwith details of such feature/components. However, no weightage will be given for additional facilities or features.
18. In case the equipments/systems are available on D.G.S. & D rate contract and are offered as such for supply, the supplier should furnish a copy of the rate contract alongwith the tender and also state this fact against such equipment/systems.
19. If necessary, Sales Tax and Income tax will be deducted from the bill and be paid by this office to the concerned department and a certificate to this effect, will be given to the supplier. Form "D" or any other appropriate form will be issued by the consignee for charging Central Sales Tax at the time of making final payments (Forms to be provided by the supplier).

**EARNEST MONEY:**

20. **Each tenderer is required to furnish an Earnest Money Deposit equal to 2% of the price quoted** as per condition 15 above, through crossed bank draft of any nationalised bank in favour of **Chief Executive Officer, MFP Processing & Research Centre, Bhopal** payable at **Bhopal**.
21. Tenders not accompanied by E.M.D. will not be considered and will be rejected.
22. **The successful bidder will have to deposit a performance guarantee money through bank draft equal to 5% of the total amount of equipment/system within 15 days from the date of issue of acceptance letter by the Chief Executive Officer, MFP Processing & Research Centre, Barkhera Pathani, Bhopal securing supply order for the items quoted. The EMD amount submitted alongwith the tender can be adjusted against this amount on a request by the successful tenderer at that time.**
23. In case of non-acceptance of tender, the Earnest Money Deposit will be refunded to the unsuccessful tenderers, in due course of time.
24. The entire amount of earnest money/performance guarantee money will be forfeited in case the supplier either expresses his inability to supply or does not execute the order for the quoted items within the delivery period mentioned in the order or within the extended period in special case at the discretion of the undersigned.
25. **Supply of Equipment/machinery.**  
The equipment/machinery shall be made available duly installed in satisfactory mode of working at the centre within 30 days of the date of issuance of the supply order to the

successful tenderer. The date of issuance of order will be the date on which a letter has been issued from the office of the CEO, MFP-PARC, Barkhera Pathani, Bhopal for the supply of equipments/machinery duly posted to the tenderer on the address as given in Tender form. All correspondence made on the address as given in the Tender form by the successful tenderer will be deemed received by the tenderer.

26. **Termination for Default**

The **Chief Executive Officer, MFP Processing & Research Centre, Barkhera Pathani, Bhopal** or Federation may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or part:

- (a) if the Supplier fails to deliver any or all of the Goods within the period(s) specified in the Contract, or within any extension thereof granted by the Federation ; or
- (b) if the Supplier fails to perform any other obligation(s) under the Contract.
- (c) if the Supplier, in the judgement of the **Chief Executive Officer, MFP Processing & Research Centre, Barkhera Pathani, Bhopal** or Federation has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

For the purpose of this Clause:

“Corrupt practice” means the offering, giving, receiving or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution.

“fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Federation, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Federation of the benefits of free and open competition.

- 27. If defect of any kind or deviations from specifications in items are detected and reported to the supplier, he should effect replacement or rectify the defects free of any charge within 20 days from the date of report, failing which the item will not be accepted and will be returned to the supplier at his own cost and risk and entire earnest money/performance guarantee money will be forfeited. However, the under-signed may condone the delay in exceptional, deserving and genuine cases where the time limit of 20 days is not adhered to.
- 28. The performacne guarantee money shall be refunded to the successful tenderer on the expiry of 2 months after the date of successful installation of the equipment subject to their working properly for the above period.

**GUARANTEE AND MAINTENANCE :**

29. **Inspections and Tests**

(i) The Federation or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Federation. The Federation shall notify the Supplier, in writing in a timely manner, of the identity of any representatives retained for these purposes.

(ii) The inspections and tests may be conducted on the premises of the Supplier and/or at point of delivery. If conducted on the premises of the Supplier, all reasonable facilities and assistance, including access to drawings and production data - shall be furnished to the inspectors at no charge to the Federation.

(iii) Should any inspected or tested Goods fail to conform to the specifications, the Federation may reject the goods and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Federation.

(iv) **The Chief Executive Officer, MFP Processing & Research Centre, Barkhera Pathani, Bhopal or Federation's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival at Federation office shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by the Federation or its representative prior to the Goods shipment.**

(v) Nothing in this clause shall in any way release the Supplier from any warranty or other obligations under this Contract.

30. **Incidental Services** - Prices charged by the Supplier for incidental services, should be separately and clearly mentioned in the tender .

31. All the above processing equipment/instruments, manufacturer should have any of the following certifications, in respect of the product quoted, which must be furnished alongwith the tender.

**1. ISO 9000 Certification**

**2. BIS Certification**

**3. Any other certification from recognized agency.**

32. *The supplied system /equipment/ operating system should be accompanied by the operational/ Instructions/ operational diagram/ manual/booklet and warranty papers etc.*

33. The Supplier shall be responsible for all unpacking, assemblies, wiring, installations, cabling between hardware units and connecting to power supplies. The Supplier will test all system /hardware operations and accomplish all adjustments necessary for successful and continuous operation of the hardware at all installation sites.

34. The Supplier will accomplish preventive and breakdown maintenance services to ensure that all system/hardware works without defect or interruption for 95% uptime for 24 hours a day, 7 days a week of operation of the unit. If any critical component of the configuration is out of service for more than three days, the Supplier shall either immediately repair the defective unit or replace it at its own cost. The Supplier will respond to a site visit and commence repair work on the equipment within 24 hours of being notified of equipment malfunction. A supplier with local distributor/dealership network will be given preference so as to effect/look after easy minor breakdown repairs/after sale services requirements of the equipments/machinery installed at MFP-PARC.

35. **Training**

*For each unit system component installed, the Supplier is required to train the designated Federation's technical and end-user personnel to enable them to effectively operate.*

**PAYMENTS**

36. Payment for Goods and Services shall be made as follows :

*On Delivery:* 85% of the payment excluding maintenance and/or repair charges shall be paid within 30 days of delivery, successful installation, commissioning, and training and after acceptance of machines/equipment on submission of documents.

*On Final Acceptance:* The remaining balance 15% of the payment shall be paid within 60 days of the satisfactory working of the machinery/equipment after the date of installation or the Acceptance of Certificate issued by the Federation's representative for the respective delivery, satisfactory commissioning and training and upon submission of documents .

37. No advance payment either with order or against R/R or delivery chalan will be made to the supplier in any case. Hence the supplier should not stipulate condition of advance payment or offer any discount on payment in time limit either. The terms of payment are neither negotiable nor conditional. Payment shall be made after successful installation of the machines in working condition.
38. Any delay in supply will entail liquidated damages at the rate of 0.5% of the cost of delayed goods for each week of delay. If the delay is for more than 8 weeks, the order shall be subject to unilateral termination and consequential action at the discretion of the Chief Executive Officer, MFP Processing & Research Centre, Barkhera Pathani, Bhopal or Managing Director, M.P. State Minor Forest Produce (T&D) Co-operative Federation. In case of termination for default or non compliance with the terms of the contract the performance security shall be liable to be forfeited. Federation shall then be free to procure the goods and services from any other source and the supplier shall be liable to make good any extra costs that the purchaser may have to incur on the procurement of similar goods and services from alternate sources.

#### **GENERAL**

39. The quantity given in the tender for each item may be increased or decreased at the discretion of the undersigned at any time.
40. The Tenderer may be asked to provide detailed technical specifications of tendered items, as and when required for processing of Tender.
41. Exact and earliest possible time of delivery should be indicated in the tender. The due delivery date given in the order will be the date of receipt of material in the Federation and not the date of despatch of material by the supplier.
42. Tenderer should submit the current Sales Tax and Income Tax clearance certificates in original or attested photostat copies thereof.
43. Any dispute arising out of this tender/contract, shall be subject to the jurisdiction of courts in Madhya Pradesh.
44. Supplier should attach the complete list of customers where similar equipment have been installed/supplied alongwith the **Technical Bid**.
45. If required, the representatives of the tenderers may be called for discussions, the date and time or which will be intimated accordingly.

**CHIEF EXECUTIVE OFFICER  
MFP-PARC, Barkhera Pathani,  
Bhopal.**



## Annexure -I

**SPECIFICATIONS OF LABORATORY EQUIPMENT REQUIRED:**

S. No	Equipment	Required Minimal Technical Efficiency & Features	Qty
1	<b>Brightfield Microscope with fluorescence</b>	<p>For Genetic/Chromosomal Studies.</p> <p><b>Stand</b> - Transmitted light 100W illumination, with height adjustability of focus knobs, with stage carrier and center table condenser holder for vertical adjustment, right &amp; left-hand operation and clamp screw, with adjustable height stop Mains 90-250V universal world wide, commutable 50/60 Hz.</p> <p><b>Focus Drive</b>- 3-step focus drive coarse, medium and fine focusing, focus torque adjustment and adjustable focus stop, with adjustable focus knobs coarse</p> <p><b>Objective nosepiece</b> – 6 - 7 objectives with M25 thread</p> <p><b>Ergostage</b> - with vernier reading, travel range 76x25mm</p> <p><b>Stage plate</b> – Should stay in position with ultra hard ceramic surface</p> <p><b>Trinocular Ergo Tube</b> - Binocular Phototube with fixed photo tube, with tubelens oo/1x, with variable viewing angle 0-35°, with inter-pupillary adjustment 55-75 mm, with constant focus and beam splitter positions vis/phot 50/50%, fixed.</p> <p><b>Illumination</b> - Halogen lamp 12V/100W refocused, non adjustable, with 1-lens collector along with heat protection filter, mains cable 0.55m 12V/100W tungsten halogen lamp</p> <p><b>Condenser</b>- Should be Universal Color Coded 0.90/1.25 Oil, S1, CC Set of light rings DF/PH 1-4 for UCL/UCLP condenser. EYEPIECE Lens HC PLAN: 10X/22 BR. M. Should be anti-fungus type with both sides diopter adjustmt.</p> <p><b>OBJECTIVE Lens: With high numerical aperture and long working distance.</b></p> <p>Obj. PLAN 4x /5x /0.10 -/, 18 Obj. PLAN CY 10x/0.25 PH1 Obj. PLAN 20x/0.40 PH1 Obj. PLAN 40x/0.65 PH2 Obj. PLAN 100x/1.25 Oil PH3 -/, 0.1</p> <p>Dust cover for DM LB with fluorescence or photography / TV Immers.-Oil 518 C ISO 8036/1; 20ml Advanced features if any should be included.</p> <p><b>Filter magazine</b> - with DLF (day light conversion filter), grey filter N16 and panchromatic green filter.</p> <p><b>Condenser</b> - Automated condenser with automated switchable condenser top, with color coding, for BF,DF, PH &amp; Pol.</p> <p><b>Digital Camera with Wire Fire Technology</b>-Color digital camera with ON-Screen microscope image display. Capable of handling Bright field, Fluorescence and Dark field images. Resolution: 3.0 Mpixels, CMOS sensor with progressive scan, pixel size 5.2µm x 5.2µm Colour filter RGB(BAYER), colour depth 30 bits with exposure time of 103µ sec – 1.68 sec., A/D converter 10 bit. Maximum 18 frames /sec with sub image format of VGA, SVGA, JPEG and XVGA alongwith shading correction. External manual trigger, flash synchronization Supported Operating System: WIN2000, XP. Power supply and mains Lead</p> <p><b>Image Analysis Software:</b>1) Basic Measurement Soft ware: The basic measurement and text editor software should merge the measured overlays into the image. The measurement data and captions could be burned directly into the image. Measurement methods</p> <p><b>Length</b>- Length of a path (start -finish) multiple-option, Combined length, Total length of a number of single lines (start - intermediate points - finish)</p> <p><b>Area</b> - Polygon area made up of multiple points (at least 3)</p> <p><b>Radius</b>- Radius of a circle at any location (2-point / 3-point)</p> <p><b>Parallel distance</b>- The distance over which a number of lines run parallel to a base line (layer measure)</p> <p><b>Angle</b>- Angle between two straight lines - also possible if apex is located outside the image</p> <p><b>Text</b>- Flexible editing and formatting facilities for captioning</p> <p><b>Arrow</b>- Marker arrow for captioning <b>Counter</b>- For consecutive numbering of items</p>	1

		<p>Help functions:• Option of displaying measurement values, item numbering or text in any position,• The characteristics of each measurement can be individually specified</p> <p>2) <b>Multifocus Software:</b> Image acquisition on automatic generation of a final image derived from a number of single image captured directly from the imaging source with generation of a final image from a number of single images taken from the archive.</p> <p>Fluorescence microscopy attachment with 5 shift positions should be Quoted separately.</p> <p><b>Fluorescence Attachment</b></p> <p>Lamphousing – for reflected light, with centrable lamp mount for Hg 100W, with focusable 6-lens collector and heat protection filter, w/o ignitor, mains cable 1.5m</p> <p>HIGH PRESSURE BURNER 103 W / 2</p> <p>Power supply Hg 100W/DC 90-250V, PFC</p> <p>Filter system A for UV excitation, excitation filter: BP 340-380, dichromatic mirror: 400, suppression filter: LP 425</p> <p>Filter system I3 for blue excitation, excitation filter: BP 450/490, dichromatic mirror: 510, suppression filter: LP 515</p> <p>Filter system N2.1 for green excitation, excitation filter: BP 515-560, dichromatic mirror: 580, suppression filter: LP 590</p> <p>Fluo Illuminator L4 / 23 with minimum 5 position turret</p>	
2	<b>Microtome</b>	<p>Manual Microtome with specimen feed system. Vertical cross roller bearings mechanism for maintenance free operation.</p> <p>Section Thickness feed to the specimen from 0.5 - 60µm with increments of: 0.5µ from 0 -2µ.; 1µ from 2-10µ; 2µ from 10-20µ; 5µ from 20-60µ</p> <p>Specimen feed from 28mm and vertical stroke length of 60mm. Specimen retraction of 220µm in the return stroke. Mechanical trimming thickness selection of 10 and 50µm. Precise specimen orientation of 8° in X, Y, Z with anti tilt feature.</p> <p>Knife holder base with lateral displacement. Hand wheel lockable in any position. Slot cover to protect the interior of instrument from sectioning debris. Knife holder for high profile disposable blades. One packet of high profile disposable blades. Standard specimen clamp. For sectioning of hard , dry plant parts like roots, stems, etc. as hard as bones.</p> <p><b>Indian Make</b></p>	1
3	<b>Polarimeter Digital (Imported Brand )</b>	<p>The control for automatic read, zero setting, print as well as scale change—angular degree (°A) or international sugar scale (°Z) — with the simple touch of a button.</p> <p><b>Range</b> Angle of rotation: (Selectable) -355° to 355°</p> <p><b>Resolution</b> Angle of rotation: 0.01°</p> <p><b>Accuracy</b> Angle of rotation: ±0.02°</p> <p><b>Tube length</b> Up to 200 mm</p> <p><b>Light source</b> LED (589 nm)</p> <p><b>Dimensions</b> 21-21/32"W x 5-29/32"H x 11"D</p> <p><b>Resolution</b> (International sugar scale) 0.01°Z</p> <p><b>Range</b> (International sugar scale) -225°Z to 225°Z</p> <p><b>Accuracy</b> (International sugar scale) ±0.05°Z</p>	1
4	<b>Microwave Oven (OTG)</b>	<p>Fully digital especially in terms with timer, temperature with heat convection facility. Max. output:3000W with convection, Combination option should be available. Capacity: 15 Lts.</p>	1

5	<b>Digital pH meter</b>	<p><b>pH/mV</b></p> <p>Range : 0 to 14 pH 0 to +/- 1999 mV</p> <p>Accuracy : +/- 0.05 pH +/- 1 digit</p> <p>Resolution : 0.01 pH 1 mV</p> <p>Temp. Compensation : Automatic</p> <p>Input Impedance : &gt;10<sup>12</sup> ohms</p> <p>Probe : Combination pH electrode</p> <p>Display : LED Seven segment</p> <p>Input : BNC</p> <p><b>Temperature</b></p> <p>Range : 0 to 100<sup>0</sup> C</p> <p>Accuracy : +/- 1.0<sup>0</sup> C</p> <p>Resolution : 0.1<sup>0</sup> C</p> <p>Input : Stereo socket</p> <p>Probe : RTD sensor</p> <p><b>Environmental Operating Conditions</b></p> <p>a) Operation : Indoor</p> <p>b) Temperature : Ambient to 45 °C</p> <p>c) Relative Humidity : 5 to 90% non-condensing</p> <p>Power Requirement : 230 Vac ±10%, 50Hz.</p>	<b>1</b>
6	<b>Gas Flow meter</b>	Electronic, Measurement of flow of gases in G.C. of Perkin Elmer make.	<b>1</b>
7.	<b>Herbarium Cabinet</b>	<p>Rugged, welded, double-walled steel cabinet with eighteen inner compartments that must be larger than standard shelving in order to accommodate over-sized herbarium sheets with ease. The cabinet should also feature powder-paint. The compartments should be open in front and should be accessible directly from front and should have moving rollers to pull it outside and wheel locking system to stop them from falling. Each compartment should have chrome label holder. The door should also feature an insect-proof neoprene seal for airtight storage, a locking handle. Silicone gasket mechanically held in place. Non-reactive, solvent-free, baked polyester powder coating finish.</p> <p>Outside dimension : 75"H X 32"W X 20" D</p> <p>Compartment dimensions: 8"H X 15" W X 20" D</p> <p><b>Indian Make</b></p>	<b>6</b>

**ANNEXURE - II  
( FINANCIAL BID )**

**TENDER FORM FOR SUPPLY OF LABORATORY  
EQUIPMENTS/INSTRUMENTS AND PERIPHERALS**

To,

**The Chief Executive Officer,  
MFP Processing & Research Centre,  
Barkhera Pathani, Bhopal- 462021.**

With reference to your Tender notice No. \_\_\_\_\_ dated \_\_\_\_\_  
for supply of LABORATORY EQUIPMENTS/INSTRUMENTS AND PERIPHERALS, I/we  
.....(Name) of  
..... ( Company), Father's name .....  
.....Post ..... District ..... State .....  
submit our proposed rates of supply as per details given below inclusive of all taxes , FOR  
destination , charges for installation and commissioning of equipment :-

<b>Item Code</b>	<b>Name of the Item</b>	<b>Model No.</b>	<b>Unit</b>	<b>Rate in Figures</b>	<b>Rate in words</b>

Date .....

Signature.....  
Full Name of the Tenderer

**ANNEXURE - III**  
**( Technical Bid )**

TENDER FORM FOR SUPPLY OF LABORATORY EQUIPMENTS/INSTRUMENTS  
AND PERIPHERALS

To,

**The Chief Executive Officer,  
MFP Processing & Research Centre,  
Barkhera Pathani, Bhopal- 462021.**

With reference to your Tender notice No. \_\_\_\_\_ dated \_\_\_\_\_  
for supply of LABORATORY EQUIPMENTS/INSTRUMENTS AND PERIPHERALS,  
I/we..... (Name) of  
..... (Company), Father's name .....  
.....Post ..... District .....  
State ..... submit our technical bid for supply of following items as per specifications  
mentioned in Annexure I :-

<b>Item Code</b>	<b>Name of the Item</b>	<b>Brand Name</b>	<b>Model Name</b>	<b>Brief description alongwith operational functions</b>

<u>Item Code</u>	<u>Name of the Item</u>	<u>Brand Name</u>	<u>Model Name</u>	<u>Brief description alongwith operational functions</u>

Date .....

Signature .....

Full Name of the Tenderer

.....

Complete Address

.....

.....

.....

Telephone No.....

Fax No. ....

e-mail:.....

**ANNEXURE - IV**

**COAPABILITY STATEMENT (CS)**

1. Name & Address of the Tenderer:

Phone:

2. Classifications (1) Manufacturer  
(2) Authorised Agent  
(3) Dealer  
(4) Others (please specify)

3. Plant: (a) Location  
(b) Description, Type & size of building  
(c) Is property on lease or free hold? If on lease indicate date of expiry of lease in such case

4. Type of machinery/equipment manufactured and supplied during last 2 years.

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Name of machinery/ equipment	Nos. manufactured	Nos. of orders on
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5. Details of testing facilities available
- a) List testing equipment available.
  - b) Give details of tests, which can be carried out on items offered.
  - c) Details of the testing organisation available.

6. Brief description of the Tenderer's organisation:  
(May attach Company's profile)

7 Names, addresses and phone numbers of two buyers to whom similar equipment /instrument was supplied in the past and to whom reference may be made by the purchaser regarding the tenderer's technical and delivery ability.

Name	Address	Phone No.
1)		
2)		

Date:

Place.....

.....

Signature.....  
Name of the Tenderer.....  
Address.....

Tel. No.....  
e-mail:.....



**TENDERER'S AGREEMENT FORM**

1. I/We ..... hereby declare that I/We have read and understood all the terms and conditions of the Tender notice No..... dated .....and agree to abide by the same .

2. I/We enclose herewith Bank Draft No. .... Dated ..... for Rs..... (in figures)Rupees..... (in words ) drawn on ..... (Bank) in favour of Chief Executive Officer, MFP Processing & Research Centre, Bhopal payable at Bhopal (M.P.) as Earnest Money Deposit . The same may be adjusted towards the Performance Guarantee in case my/our tender is accepted by the Federation/MFP PARC.

3. I/We agree to supply the tendered Laboratory Equipments/Instruments and Peripherals (including installation complete on turn-key basis)within 30 days from the date of issue of supply order.

4. In the event of my/our failure to abide by the conditions of this agreement and all the terms and conditions of the tender notice referred to in para1.above, I/We ..... shall be liable to pay such penalty, as may be leviable under the terms and conditions of the tender notice .

Date .....

Signature .....

Full Name of the Tenderer .....

Complete Address

Telephone No. ....

Fax / Pager / Mobile No. ....

e-mail:.....

**Witnesses :**

1. Signature.....  
Name .....  
Address .....

2. Signature.....  
Name .....  
Address .....