

# QUATATION DOCUMENTATION

FOR

SUPLY, ERECTION, TESTING AND COMMIISIONING OF  
LEATHER PROCESSING AND OTHER MACHINARIES  
FOR TRAINING AND PRODUCTION CENTER OF

## DESIGNER LEATHER

AT

**BOLEPUR, BIRBHUM**

- PROJECT** - EXPORT QUALITY DESIGNER LEATHER :  
TRAINING AND PRODUCTION MART
- SH** SUPPLY, ERECTION, TESTING AND  
COMMISSIONING OF LEATHER PROCESSING  
MACHINARIES, FIRE FIGHTING MACHINARIES,  
BACK UP POWER SYSTEM & PA SYSTEM.
- BY** - DISTRICT MAGISTRATE  
PRASASHAN BHAWAN  
SURI  
BIRBHUM  
PIN – 731101
- AT** - MOUJA – BALLAVPUR, J.L. # 63, Plot # 3257 (part)  
P.S. BOLEPUR, BLOCK – BOLEPUR,  
SUB DIVISION – BOLEPUR, DIST - BIRBHUM.
- CONSULTANT** - ABCATS (INDIA), SANTOSH PUR, KOLKATA

THE FOLLOWING GUIDELINES SHOULD BE NOTED DURING FILLING  
OF THE MODIFIED TENDER DOCUMENTS

❖ ALL COMPLETED DOCUMENTS ADDRESSED TO:

DISTRICT MAGISTRATE  
PRASASHAN BHAWAN  
SURI, BIRBHUM  
PIN – 731 101  
PHONE : (03462) 255 222  
FAX : (03462) 256 222  
E-MAIL : dm\_bir@nic.in

## GENERAL GUIDELINES

- ❖ THIS TENDER DOCUMENTS MUST BE COMPLETED AND RETURNED TO ABOVE ADDRESS SIGNED IN EVERY PAGE WITH COMPANY SEAL
- ❖ PERSONS SIGNING THE DOCUMENTS MUST ATTACHED POWER OF ATTORNEY / AUTHORIZATION OF THE COMPANY
- ❖ WITH THE TENDER DOCUMENTS MUST ADD REFERENCE LIST OF SIMILAR TYPE PROJECTS EXECUTED IN INDIA WITHIN LAST THREE YEARS.
- ❖ THE BIDDER SHALL QUOTE THE PRICE RATES IN ENGLISH LANGUAGE
- ❖ ALL ENTRIES IN THE TENDER SHALL PREFERABLY BE TYPED OR CLEARLY HAND WRITTEN
- ❖ ALL DESIGNS, MATERIALS, MANUFACTURING TECHNIQUES AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH HIGHEST ACCEPTED STANDARDS
- ❖ EACH OFFER SHALL BE SUPPORTED BY ADEQUATE TECHNICAL DOCUMENTATION, EQUIPMENT LISTS, DATA SHEETS, PERFORMANCE SHEETS, ILLUSTRATIONS, BLOCK DIAGRAMS, LAYOUT DRAWINGS ETC., TO FACILITATE A FULL AND COMPLETE APPRECIATION OF THE EQUIPMENTS
- ❖ SUCCESSFUL BIDDER HAS TO SUPPLY DRAWINGS FOR APPROVAL FROM ENGG. –I CHARGE / CONSULTANT BEFORE EXECUTION OF WORK.
- ❖ SUCCESSFUL BIDDER HAS TO APPROVE THE SUPPLIED MATERIALS BEFORE EXECUTION.
- ❖ OFFER SHALL BE ATTACHED WITH TIME SCHEDULE BY BAR DIAGRAM
- ❖ CANVASSING IN ANY FORM IN CONNECTION WITH THE TENDERS IS STRICTLY PROHIBITED
- ❖ DISTRICT MAGISTRATE, BIRBHUM, RESERVES THE RIGHT TO REJECT FULL OR PART TENDER WITHOUT ASSIGNING ANY REASON

## GENERAL DESCRIPTION

### + Scope of Work

The scope of work covers supply (inclusive of all taxes, VAT, loading, unloading charges etc), installation, testing and commissioning of

- major leather Processing machineries (type and description elsewhere) as per specification.
- all motors, electrical cables necessary for commissioning and operation of machineries.
- all necessary accessories for function the machineries for various uses for training and production of designer leather items.
- CAD / CAM system with computer and plotter etc.
- stand by power pack, eco-friendly generator.
- fire fighting system inclusive of fire extinguisher, fire alarm, emergency hooter etc.
- complete closed circuit TV system
- electrical and PVC air curtain
- industrial vacuum cleaner.
- split type room air conditioner
- movable weighing scale with printer
- hand trolleys

### + Tender Rate

The quoted rate shall be deemed to include for all materials, equipments, accessories, transportation, insurance and all connected works required for successful erection, testing and commissioning of said equipments / systems inclusive of necessary minor civil work (when and where required).

### + Location of Store

The mentioned project "EXPORT QUALITY DESIGNER LEATHER : TRAINING AND PRODUCTION MART is located at MOUJA – BALLAVPUR, J.L. # 63, Plot # 3257 (part) P.S. BOLEPUR, SUB DIVISION – BOLEPUR, DIST - BIRBHUM.

### + Ambient Condition

- Summer - Average ambient temperature of that area is 34°C with a peak of 42°C.
- Winter – Minimum temperature is 4°C at night and 12°C at day time.

### + Standard and Specification



All the supplied materials strictly as per BIS specification and using with latest technology with upto date amendments.

## Approval of Installation Drawings

Successful bidder has to be supplied 3 copies of working drawings within 15 days from date of work order. The drawings need to approve by concerned Engineer-in-charge/ Consultant of the project prior to supply of materials.







## Workmanship

The work shall be carried out in conformity with the followings

-  Indian Standard code of practice
-  Relevant specifications for all equipments

## Testing and Installation

On completion of the installation following test shall be performed to the full satisfaction of Engineer-in-charge / Consultant of the project

-  Earth resistance of the installation
-  Insulation resistance test
-  Interlocking system of machineries
-  Functional and interlocking of all motors and its control panel
-  Vibration control of all machineries
-  Any other test as desired by Engineer-in-charge / Consultant


## Final Painting / Cleaning of Site

On completion of installation, testing, commissioning the final painting and cleaning of floor, site etc. will be performed by contractor.


## Completion Drawings

Two sets of as built drawings shall be submitted to the Engineer-in-charge along with all relevant documents by the contractor within 15 days after completion of job.

## Warranty

-  The materials to be supplied by the contractor shall be guaranteed for satisfactory operation for a period of 12 months from the date of completion of the whole contact job. If during the above period, any of the installation found defective in materials or workmanship, the same shall be rectified or replaced by the contractor at site within reasonable time without affecting day to day job.

## Training of Operation of Machineries

-  After the completion of installation functional training to the concerned project workers / beneficiaries has to be performed by **INTERNATIONAL TRAINED COMPETENT ENGINEER / EXPERT** organized by contractor at continuously initial three month after that once in fifteen days.

## TECHNICAL SPECIFICATION

### **Specification of Hydraulic Clicking Machine**

- Maximum cutting force should be 20 ton.
- The adjustable stroke might have within 75 mm.
- Distance between press board and working table be range of 40 mm – 120 mm.
- Working table size 900 mm X 430 mm. Arm width should be 370 mm.
- Hydraulic oil quantity more or less 32 kg.
- Motor power consumption each 0.75 kW, total 1.50 kW.
- Required two numbers.
- Make : USM, USA / Atom, Italy

### **Specification of Traveling Head Clicking Cutting Machine**

- Maximum cutting force should be 25 ton.
- The adjustable stroke might have within range of 10 - 120 mm.
- Working table effective length may be 1600 mm.
- Press board working sizes will be 500 mm X 500 mm.
- Hydraulic oil quantity more or less 80 kg.
- Motor power consumption 2.20 kW.
- Required one number.
- Make : USM, USA / Atom, Italy

### **Specification of Skiving Machine**

- Leather skiving machine, complete with table, clutch motor and exhauster.
- The adjustable stroke might have within range of 10 - 120 mm.
- Working table effective length may be 1600 mm.
- Should inclusive of waste and dust containers.
- Exhauster unit should be with independent motor.
- Motor power for exhauster unit will be 0.18 kW. Total 0.54 kW.
- Motor power consumption 0.37 kW. Total 1.10 kW.
- Required three numbers.
- Make : Sagitta, Italy.

### **Specification of Band Knife Splitting Machine**

- Width of working space might be 430 mm.
- Maximum and minimum thickness of cut should within the range of 8 mm and 0.1 mm respectively.

- Feeding speed 3 + 3 manually.
- Feeding speed should be complete with electronic adjustment.
- Motor power consumption 3.00 kW.
- Required one number.
- Make : SM, Italy; Sagitta, Italy

### **Specification of Strap cutting Machine**

- Maximum cutting force should be 15 ton.
- The adjustable stroke might have within range of 10 - 80 mm.
- Width of working space might be 430 mm.
- Maximum and minimum thickness of cut should within the range of 8 mm and 0.1 mm respectively.
- Motor power consumption 1.50 kW.
- Required one number.
- Make : SM, Italy Sagitta, Italy

### **Specification of Flat Bed Sewing Machine**

- With complete accessories.
- With the adjustable stroke.
- Motor power consumption 0.25 kW, Total 10.0 kW.
- Required twenty numbers.
- Make Suki, Japan.

### **Specification of Post Bed Sewing Machine**

- Maximum SPM 1200.
- Maximum stitch 6 nos.
- Maximum foot lift 10-15 mm.
- Needle and thread size 134/135 and 90-140 mm respectively.
- Driver power consumption 0.50 kW.
- Required one number.
- Make : Amatech, Italy

### **Specification of Single Needle Lockstitch Cylinder Arm Machine**

- Must be attached in standard components.
- Stitches per minute might be 3.0 .
- Needle size should be 9.0 mm.
- Power consumption 0.80 kW, Total 3.20 kW.
- Required four numbers.

- Make : Adler, Italy; Amteck, Italy.

### **Specification of Single Needle Walking Feed Sewing Machine**

- It should be excel ant stitch pattern and constantly tight stitches.
- Long stitches length may be up to 10 mm.
- The machine should be long sewing cycles by barrel shuttle with large bobbin capacity.
- Stitches point might be 800 / min.
- Motor power consumption 0.80 kW.
- Required one number.
- Make : Adler, Italy; Amtech, Italy.

### **Specification of Platting Cum Embossing Machine**

- Should be complete with stand, appropriate table and motor.
- Maximum pressure 180 mT
- Blower power consumption 2.50 kW.
- Required one number.
- Make : Banf, Italy

### **Specification of Horizontal Dryer**

- Should be complete with stand, appropriate table and motor.
- It should be conveyer type.
- Jumbo type.
- Blower power consumption 3.50 kW.
- Required one number.
- Make : SM, Italy

### **Specification of Buffing Machine**

- Should be double working position.
- Machine shall be inclusive of pads, brushes, abrasive papers etc. with different grains.
- Shall contains aspirator units for vacuuming waste and dust.
- Speed variator range 100 to 3000 rpm.
- Power consumption 0.25 kW.
- Required one number.
- Make : SM, Italy

### **Specification of Edge Dyeing Machine**

- Should be portable type and should be used versatile.

- Power consumption 0.25 kW.
- Required two number.
- Make : SM, Italy

### **Specification of Cloth Cutting Machine**

- Should be complete with stand.
- Power consumption 0.25 kW.
- Required one number.
- Make : Suprena, Japan


### **Specification of Pattern Sewing Machine**

- Should be complete with stand, appropriate table and motor.
- Maximum stitch 6 -10 nos.
- Needle and thread size 134/135 and 90-140 mm respectively.
- Driver power consumption 1.50 kW.
- Required one number.
- Make : Mitsubishi, Japan

### **Specification of Plotter / Cutter With CAD / CAM System**

- The entire cutting surface area should be 1400 X 800 mm.
- Should be divided in to more than 25 sectors.
- All the software should be accessible from color LCD with touch screen technology.
- Should be LAN Connected to the CAD work station.
- Velocity should be 50 cm / sec.
- The total system should be CAD developed and Software development specially Shantiniketan style.
- Tools inclusive of Knife, Pen, Punch, Hollow Punch etc.
- Must be inclusive of Interanational Standard Computers, Lazor Printers etc.
- Driver power consumption 2.50 kW.
- Required one number.
- Make : TESEO, Italy.

### **Specification of Eco-Friendly Diesel Generator**

-  The diesel generator set shall be supplied complete with all ancillary equipment necessary for starting and running of the set, including cooling systems, fuel storage and supply system, instrumentation, control and protection arrangements, spares and special tools.



- The set is to be reasonably self-contained to minimize the work of installation at site. The engine, alternator and cooling radiator shall be mounted on a combined under base of stress relieved fabricated steel.
- The set is to be mounted on suitable arrangement of anti vibration mounting designed to minimize the transmission of vibration but without resulting in excessive amplitudes of movement of any parts of the set.
- The set should be covered with sound proof insulated cover along with service doors at both the side.
- The engine speed shall be 1500 rpm and fan cooled closed water circuit system.
- The generator frequency shall be  $50 \pm 2$  % Hz, Voltage 400 V + 5 % 3 phase and neutral.

### **Specification of Fire Fighting System**

- It shall be portable type fire extinguishers
- Fire Extinguisher dry powder (cartridge type) upright type cylindrical shaped suitable for fighting fires of class ABC (IS:14609/1999 conforming to IS: 2171/1999 with fire knock down test.
- Light weight High pressure hydraulic hose (preferably two in one hose) working pressure 720 bar 15 mtrs long with quick coupler. The safety ratio shall be 1:4 and the min. bursting pressure should be 2880 bar. The weight of the hose should not be more than 7 kgs.
- The smoke detector housing shall be UL listed per UL 268A.
- The detector shall operate at air velocities of 100 feet per minute to 4000 feet per minute (0.5 to 20.32 m/sec.).
- The detector shall be capable of providing a trouble signal in the event that the front cover is removed.
- It shall be capable of local testing via magnetic switch or remote testing
- The unit shall be reset by local reset button or remote test station.
- An integral filter system shall be included to reduce dust and residue effects on detector and housing, thereby reducing maintenance and servicing.

### **Specification of CCTV, PTZ Camera**

- Image device interline transfer 1/4" or better format CCD sensor.
- Focal length 4 mm to 72 mm or better (for Artificial Intelligence Cameras with better focal length i.e; 3.5 mm to 91 mm.
- Optical zoom (For Indoor Camera) shall be 18 X or better.
- Number of Pixels 720 X 576, Scanning System PAL resolution 480 TVL or better illumination (For Indoor camera).
- Pan Travel 360° Continuous
- Tilt Travel 0 - 90° Manual Tilt Speed 0.5°/SEC to 90°/SEC
- Manual pan speed 0.5°/SEC to 90°/SEC
- Preset Tilt speed 0.5°/SEC to 90°/SEC

- Preset Pan Speed 0.5%/SEC to 300%/SEC
- Preset positions Min. 64
- Iris Control Auto, Focus Auto Back Light compensation
- Power supply generally AC 230 V @ 50Hz/12V or 24 V AC Rectifier and SMPS if DC supply

### ● **Specification of Industrial Vacuum Cleaner**

- Shall contain the rust-free tank ensures a longer working life for the unit. The container is also tilt-able and removable for convenient handling and emptying.
- Dual Motor Power
- For productive cleaning, vacuuming should be carried out quickly and efficiently. Dual motors provide the power to get the job done well and to get it finished fast.
- Frequent interruptions to empty the tank slow the cleaning and frustrate the user.
- IP Protection class IP 55. Insulation class S.
- Rated Power 3 kW.
- Sound pressure 1.5 M dbL, Air flow L/M<sup>2</sup> 5830., Vacuum 310 mBar.
- Capacity 310 lit, Container capacity 50 lit.
- Filter type 'L' Class polyester.

### ● **Specification of Room Air Conditioner**

- The scope of works covers supply, installation, testing and commissioning of air-cooled package type air-conditioners with following specifications:
- The air-conditioners shall be suitable for operation on 415 V, 3phase- 4wire, 50 Hz. AC supply.
- The indoor unit shall have adequate size copper tubing with about 5 fins per cm.
- The surface area of the cooling coil shall be adequate to give required refrigeration capacity.
- The compressor shall be Hermatic / Semi-hermatic type.
- The blower fan shall be selected for quiet operation.
- The casing of indoor & outdoor unit shall be made from corrosion resistant steel sheet with painted/powder coated.
- Capacity of each machine should be 1.50 TR
- Required six numbers.
- Make : Daiken, Hitachi, Bluestar, LG, Samsung.

### ● **Specification of PVC and Electrical Air curtain**

- PVC Strip curtain shall be provided at all doors (except fire escape door). It shall be fixed with S.S hook and cover the full span of open area.
- The air curtain (1.50 mt length) should cover the doorway completely and there should not be any air gap. It should create an effective air seal across the opening

to separate two environments and prevent flying insects from entering the establishment. Non re-circulating air curtains are to be used for these applications. A limit switch at the door should automatically operate when the entrance is open eliminating any ingress of external air & shut it off when the door is closed. Color shall be used either entirely or with individual panels in contrasting colors with the approval of Engineer in charge. Adjustable louvers are to be provided to obtain optimum operating efficiency.

- Required four numbers.

### **Specification of Movable Weighing Scale**

- The capacity of the weighing platform shall be 1.0 metric Tones. With a platform minimum size of 800mm X 800 mm.
- Adequate care shall be taken from ingress of dust/dirt and water.
- The mechanism should be Capable of withstanding all forces experienced for weighing the consignment without trolleys, without being adversely effected. Readout variations should not be produced by different positioning of load.
- Weighing system designed to run 24 Hrs a day.
- Fail safe operation should be ensured i.e. where load cell or other failure occur no read out is given.
- The display unit should read weight, tare weight and net weight.
- Other details :
  - ▶ Weighing Capacity : 1000 kg
  - ▶ Smallest Division : 2 kg
  - ▶ Load Cells : 2 Nos. with IP67 protection.
  - ▶ Power Supply : 220V  $\pm$  10%, 50 Hz  $\pm$  2%
  - ▶ Weighing Accuracy : 0.05%
  - ▶ Printing arrangements : 1 Desk Housing Printer
- Required one number.

### **Specification of Trolleys**

- The trolley should be light weight, easily maneuverable and attractively finished.
- The bed of the trolley should be of 1000 mm length and 800 mm wide. The capacity should be to carry load of 1,000kg. It should be in steel construction preferably with profiled sheet of at least 18 SWG thk and powder coated with approved color. The sides of the trolley should be lined with at least 1/2" thk rubber lining to absorb impacts.
- ◆ The casters should have ball bearings for easy movement and lubrication points should be provided. The wheels should be wear resistant and should be rubberized for smooth movement. The front wheels will be with swivel casters and the rear wheels should be unidirectional type. The bracket for casters should have forged

steel arms and should be Zinc plated. All the fasteners used for assembly should be Zinc plated.

- ◆ The trolley should contain break arrangement.
- ◆ The trolley should be provided with handle on the front side. The grip of handle should have rubber sleeves.
- ◆ Required two numbers.

### **Specification of Cable Laying**

- Cable shall be laid as per CPWD specifications.
- Identification tags shall be provided on either end of multi-core cables. Engraved tag plates or PVC ferrules shall be used for identification of cables.
- Cable shall be tested for insulation resistance by a calibration megger and checked for proper connections, results recorded and approved by Engineer-in-charge before installation.
- Where leads are connected to field instruments, a 300 mm coiled loop shall be provided. When connecting individual terminals on Panel / Junction box / instrument a coil should be made on each core of wire.
- All cables will be laid directly to the equipments without any joint unless otherwise specified.

### **Specification of Cable Trays**

- These trays shall be fabricated out of 2.5 mm (12 B.G.) perforated G.I. (Hot dip).
- Supply of cable trays shall include supply of necessary coupling plates and hardware material such as GI bolts, Nuts, Washers etc. Reducer plate wherever required shall be supplied as part of the tray.
- The trays shall have suitable provision for clamping of cables at an interval of 500 mm.
- All finished cable trays and accessories shall be free from sharp edges and corners, burr and unevenness.
- Cable trays shall have to be supplied in standard length of 2.5 M except for smaller lengths at end of a straight run.
- Tray width as indicated are based on inside dimension.
- Size of Trays- As required.
- The trays shall be properly supported at regular intervals. Wherever insert plates are not available, supports on concrete structures or ceiling shall be fixed with minimum of 10 mm expansion bolts.
- All the G.I. perforated cable trays, if required, shall be cut with hacksaw only and then filed for smoothness. Gas cutting of G.I. Trays is not allowed.
- Cable trays shall be site fabricated out of steel ( channel, angle, flats etc.), & shall be ladder type, duly epoxy painted & supported at every 2.5 meters maximum. Size / width of cable trays shall be as per approved drawings furnished to contractor during installation / as per detailed drawings prepared by him. These cables after laying, proper dressing & tagging, shall be terminated using industrial double

compression glands, nickel-plated brass, & using heavy tinned copper lugs. These cables shall be checked using insulation resistance tester & then shall be energized. The IR value of each cable shall be recorded.

## **Installation**

- ▶ Miscellaneous consumables such as welding rods, anchor fastener, minor civil works etc. required for installation are also included in contractor's scope of work. Minor civil work such as making chase / hole in floor / wall etc. required for installation shall also be part of installation. The installation shall be carried out as per layout drawings for power / control / lighting etc. issued to contractor.
- ▶ Contractor shall take due care for storage of all items. Unloading, shifting of these items / equipments to site for installation is also included in electrical contractor's scope. Until the time all equipments are installed, tested, commissioning & handed over to authority. Contractor shall be responsible for proper care of all equipments.
- ▶ All cable glands provided shall be double compression, nickel plated brass & shall be suitable for termination of cables mentioned in SOQ.
- ▶ Cable lugs shall be Aluminum for Aluminum cable and tinned copper for other cable.
- ▶ All earthing material required shall be supplied by electrical contractor (must be hot dip galvanized).
- ▶ PVC / MS conduits, conduit accessories etc. supplied by contractor shall be as per latest applicable standards. Structural steel such as channels, angles, plates, flats etc. shall be new, conforming to Indian standards. Structural steel shall be painted with two coats of red oxide & two coats of epoxy paint, after cleaning of this steel installation. Contractor shall submit drawing for site fabricated ladder type cable trays, cable tray supports etc. for approval before starting the fabrication / installation
- ▶ Conduit wiring, where required shall be carried out using M S heavy-duty conduits. Wires used for conduit wiring shall be PVC insulated, multi stranded copper conductor wires. Each point wiring shall consist of following :
  - ❖ Supply & installation of 1" M S conduits, multi stranded copper wires.
  - ❖ Conduit accessories such as bends, tees, and junction boxes required with terminal block, suspension conduits etc. shall be threaded type and C.P.W.D approved.
  - ❖ Fixing hardware (such as saddles, nuts, bolts, brackets etc.)
  - ❖ 14 gauge bare copper wire for earthing
  - ❖ Point wiring shall be measured as per CPWD specifications.
- ▶ Earthing protection shall be carried out as per CPWD specifications & other relevant Indian standards. Generally earthing system will comprise of GI pipe electrodes, MEL ( main earth loop ) of GI earthing strip of size 50 x 6 mm laid underground, above ground in cable trays, earth bus, test links etc. The method of installation for GI pipe earth electrodes shall be as per CPWD specifications.
- ▶ All necessary documents, test certificates (shop tests as well as site tests ) shall be prepared, compiled by contractor for submission to electrical inspector. It shall be

responsibility of the contractor to obtain approval of drawings, documents & installation from electrical inspector, if necessary.

## **Preventive Maintenance for Guaranteed Period**

- All inclusive comprehensive maintenance inclusive of first year operation and training of personals of various machineries for guaranteed period are being entrusted to the successful bidder, the firm shall depute qualified technical personnel for proper training and also serviceability, maintenance and operation of the system for first year. The firm has to ensure that at no time the of processing machineries are unserviceable more than 2 days; action shall be taken by authority to get the equipment attended at the risk and cost of the firm from special agencies.
- The firm shall carry out maintenance / repair, replacement of spare part, consumables etc. so that system is kept in full working conditions at all the times. Preventive maintenance schedule shall be submitted along with Technical bid.
- After completion of all the installation work and commissioning, the contractor shall provide necessary technical persons, skilled workers for operating and maintaining the entire installation during the guarantee period and three years thereafter following West Bengal labor laws.
- The systems are to be operated and maintained for seven days in a week round the clock and the contractor has to deploy qualified personnel for this purpose.
- All spares / consumables required for proper maintenance are to be provided by the contractor during the period. This shall include all lubricating oils etc.
- The contractor / firm will be responsible for round the clock operation, day to day maintenance, all periodical maintenance, half yearly / annual overhauling etc. as per manufacturer's recommendation and service of the systems and equipments.
- For any maintenance work if shut down is necessary even for a short duration, the contractor will ensure proper co-ordination with Engineer-in-charge. The contractor will take all the necessary measures to ensure continued operational status of the entire equipment by prompt servicing and defects rectification action. The firm will notify to the Engineer-in-charge in case of any specific maintenance / replacement work and it shall be carried out only in his presence or in the presence of authorized representatives.
- All the tools necessary for successful operation and maintenance of the entire equipments and system shall be arranged by the contractor and must be available at all times at site.

 **Schedule of Quantity**

**DESIGNER LEATHER PROCESSING MACHINARIES, STAND BY  
POWER, FIRE FIGHTING SYSTEM, P.A. SYSTEM ETC.**

**Figures should in Rupees Only**

<b>SL. NO</b>	<b>DESCRIPTION OF ITEM</b>	<b>QTY</b>	<b>ESTIMATED RATE</b>	<b>QUATED RATE</b>	<b>AMOUNT</b>
<b>1</b>	Supply, Installation, Testing, and Commissioning of Hydraulic Clicking Machine with all necessary accessories as specified. 20 Tons, 370 mm arm width. Required two nos.	<b>2 Nos.</b>	2,80,800.00 X 2 Nos. = <b>5,61,600.00</b>		
<b>2.</b>	Supply, Installation, Testing, and Commissioning of Traveling Head Clicking cutting machine with 25 Ton cutting force with all required accessories, as specified, inclusive of cutting table size 1600 X 500 mm.	<b>1 No.</b>	<b>5,92,800.00</b>		
<b>3.</b>	Supply, Installation, Testing and Commissioning of Leather Skiving Machine with all required accessories, as specified, complete with Table, Clutch motor and Exhauster.	<b>3 Nos.</b>	2,53,760.00 X 3 Nos. = <b>7,61,280.00</b>		
<b>4.</b>	Supply, Installation, Testing and Commissioning of Band Knife Splitting Machine, as specified, complete with four speed feeder, long life grinding wheel, Automatic knife / guide realignment, fixed foot, waste and dust exhauster, automatic material partial incision device etc.	<b>1 No.</b>	<b>17,42,000.00</b>		
<b>5.</b>	Supply, Installation, Testing and Commissioning of Strap Cutting Machine and Mirror cutting machine with all necessary accessories as specified.	<b>1 No.</b>	<b>4,51,840.00</b>		
<b>6.</b>	Supply, Installation, Testing and Commissioning of Spray Booth as specified.	<b>1 No.</b>	<b>6,17,760.00</b>		
<b>7.</b>	Supply, Installation, Testing and Commissioning of Flat bed single needle sewing machine with all required accessories as specified.	<b>20 Nos.</b>	29,120.00 X 20 Nos. = <b>5,82,400.00</b>		
<b>8.</b>	Supply, Installation, testing and commissioning of Post bed sewing machine as specified along with hinged	<b>1 No.</b>	<b>7,15,520.00</b>		

	postbed-Unision feed with mechanical knee press lifter complete with stand appropriate table, motor etc.				
9.	Supply, Installation, testing and commissioning of Single needle Lockstitch Cylinder Arm machine with bottom feed, needle feed and alternating feed as specified. Complete with stand, appropriate table, motor and necessary accessories etc. as specified.	4 Nos	3,05,760.00 X 4 Nos. = 12,23,040.00		
10.	Supply, installation, testing and commissioning of Cylinder bed, walking feed single needle heavy duty sewing machine with all necessary accessories as specified.	1 No	4,14,960.00		
11.	Supply, installation, testing and commissioning of Buffing machine with rubber-emery wheel, grooved wooden wheel, buffing wheel, with suction device and other necessary accessories as specified.	1 No	4,04,560.00		
12.	Supply, installation, testing and commissioning of Edge Dyeing machine with speed variator and other necessary accessories as specified.	1 No	5,20,000.00		
13.	Supply, installation, testing and commissioning of Edge Coloring Machine as specified.	2 Nos.	1,01,920.00 X 2 Nos. = 2,03,840.00		
14.	Supply, installation, testing and commissioning of Plating machine as specified.	1 No	17,55,520.00		
15.	Supply, installation, testing and commissioning of Horizontal Dryer with washing drum and other necessary accessories as specified.	1 No	7,65,920.00		
16.	Supply, installation, testing and commissioning of Cloth Cutting machine as specified.	1 No.	1,02,440.00		
17.	Supply, installation, testing and commissioning of Pattern Sewing machine complete with stand, necessary table, motor and other necessary accessories etc. as specified.	1 No.	10,34,800.00		



18.	Supply, installation, testing and commissioning of CAD / CAM System, Plotter / Cutter for patterns. Cutting Head – 3 tools without compressed air working vacuum divided into 28 sectors inclusive of specialized software development as specified.	1 Job.	21,84,000.00		
19.	Supply, Installation, testing & commissioning of appropriate compressor with motor for machineries.	2 Nos.	1,90,320.00 X 2 Nos. = 3,80,340.00		
20.	Supply, installation, testing and commissioning of Eco-friendly generator (82.5 KVA) inclusive of sound proof body, vibration pad, exhaust out let etc as specified.	1 No	7,75,920.00		
21.	Supply, installation, testing and commissioning of smoke detector (6 Nos.), Fire extinguisher (30 Kg) (6 Nos.), control panel, mimic panel, cables, hooter etc. as specified.	1 Job.	1,12,000.00		
22.	Supply, installation, testing and commissioning of PTZ type CCTV (3 Nos.) along with monitor, necessary cables as specified.	1 Job.	3,25,800.00		
23.	Supply, installation, testing and commissioning of Industrial type Heavy duty vacuum cleaner as specified.	1 No.	24,380.00		
24.	Supply, installation, testing and commissioning of split room air conditioner (6 Nos.) as specified.	6 Nos.	23,712.00 X 6 Nos. = 1,42,272.00		
25.	Supply, installation, testing and commissioning of Electrical and PVC air curtain at all doors of Processing hall (4 Nos.) as specified.	4 Nos.	8,537.00 X 4 Nos. = 34,148.00		
26.	Supply, Installation, testing & commissioning of movable weighing Scale (capacity 1.0 MT) with in house printer as specified.	1 No.	34,800.00		
27.	Supply, Installation, testing and commissioning of Hand Trolleys (2 Nos.) as specified.	2 Nos.	29,120.00 X 2 Nos. = 58,240.00		
	<b>TOTAL (Rs.) ----</b>		<b>1,65,22,180.00</b>		

**TOTAL QUATED VALUE IN WORDS :**

**Signature of Bidder with seal & Date**