



**NATIONAL INNOVATION FOUNDATION - INDIA**  
(Autonomous Body of Department of Science & Technology, Govt. of  
India)

TENDER DOCUMENT

FOR

SUPPLYING OF MACHINES/ EQUIPMENTS FOR FAB LAB / WORKSHOP

**Estimated Value of Tender Rs. 96,00,000/-**

Date of Tender Issue	: 21/02/2020 at 11:00 hrs
Last date of Tender submission	: 09/03/2020 at 10:00 hrs
Opening of Technical Bids	: 09/03/2020 at 10:30 hrs

National Innovation Foundation-India is an Autonomous Body of the Department of Science and Technology, Govt. of India providing institutional support to grassroots innovators and outstanding traditional knowledge holders.

NIF invites sealed tender for supplying of machines and equipment's for workshop. The sealed bidding documents should be delivered in the Administration Section of NIF on or before the stipulated date and time. The technical bid and the financial bid must be sealed in separate envelopes super-scribing "**Technical Bid**" and "**Financial Bid**" and both these two envelopes must be placed in a third envelope super-scribing "**Tender for Supplying of Machines and Equipment's for Workshop**". This third envelope should be **sealed (glued along with tapped). Stapled or open tender will be forfeited**. It should be delivered to: "The Director / Chief Innovation Officer, National Innovation Foundation - India, Grambharti, Amrapur, Gandhinagar - Mahudi Road, Gandhinagar - 382650." Latest by 10.00 AM on 09<sup>th</sup> March 2020.

The technical bids will be opened on 09<sup>th</sup> March 2020 at 10:30 AM, at address given above. The term and conditions are as follows:

Any queries related to this tender may be addressed only through email to [pc@nifindia.org](mailto:pc@nifindia.org).

#### **Terms & Conditions:**

1. The tenderer/bidder may be a proprietary firm, Partnership firm, Limited Company, Corporate body legally constituted engaged in manufacturing /marketing of production machines /equipment's (copy of registration of firm to be attached).
2. The Bidder must have a minimum financial annual turnover of **Rs. 25 lakhs** in each of past 3 financial years and no loss in P&L account shall be there in those years. Audited Financial documents of Balance Sheets & P&L account certified by CA shall be provided by bidder along with Income Tax Returns.
3. Applicant should not have been blacklisted by the Depts./Ministries of the Govt. of India/State Govt. /PSUs (**A declaration has to be submitted**).
4. The bidder shall furnish, as part of the bid, an interest free EARNEST MONEY DEPOSIT (EMD) of amount mentioned in annexure 2 for each machine /equipment separately in the form of Demand draft (valid for 90 days) drawn in favour of '**National Innovation Foundation-India**' payable at Ahmedabad from any Nationalized /Scheduled bank.
5. Earnest Money Deposit (EMD) in the form of Demand Draft only shall be placed in a sealed Envelope 1 super scribed as "Earnest Money" with name of machine (s).
6. The tenderer /bidder should submit duly filled check list of technical bid (annexure 1) along with supporting documents and catalogues of machines quoted in the envelope of technical bid.
7. The technical and financial bids should be quoted separately in different sealed envelopes for each machine. Both envelopes must be kept in an envelope which should be superscripted as "Tender for supply of ..... (Name of machine)".

8. One supplier may quote for more than one machine but he should submit technical and financial bids and the EMD separately for each machine. All the sealed envelopes may be submitted in a single envelope.
9. Sealed Bid may be submitted to the address given above.
10. A copy of the authorization letter/power of attorney/board resolution for the purposes of signing and submitting the present tender documents shall be attached with the tender documents.
11. The Bidder's name stated on the proposal shall be the exact legal name of the firm.
12. Erasures or other changes in the Bid Documents shall be initialled by the person signing the Bid.
13. NIF shall open the bids Technical and Financial bids on the scheduled dates of which the Bidder shall take note and the Bidder, either himself or through an authorized representative shall remain present at such opening. In the event any authorized representative of a Bidder is sent to such opening then such person shall be required to carry an authorization letter for the same.
14. It is hereby clarified that the absence of any Bidder or his authorized representative at such opening shall not affect the legality of such opening and NIF shall be entitled to continue with such opening of bids even in the absence of the Bidders or any of them, and no claim or objection on this ground shall be entertained.
15. Any Tender without EMD will be treated as non-responsive and shall be rejected at the outset itself.
16. The EMD of the unsuccessful bidders will be discharged/returned at the earliest after completion of the tender process. The successful bidder's EMD will be discharged upon the bidder's acceptance of the Letter of Intent/purchase order satisfactorily. The EMD may be forfeited:
  - a. If the bidder withdraws his/her bid during the period of bid validity specified by the bidder in the Bid form;
  - b. In the case of successful bidder, if the bidder fails to sign the contract or fails; or Fails or refuses to honour his/her own quoted price for any of the items or part thereof.
  - c. In both the above cases bidder will not be eligible to participate in the tender for one year from the date of issue of Letter of intent.
17. The financial bids of those bidders will be considered who qualify under technical bid as per above mentioned criteria and duly submitted checklist as per Annexure 1.
18. **The prices quoted must be inclusive of all taxes, cost of software, training /machine demonstration, loading & unloading, transport insurance (wherever applicable) and transportation charges to deliver the equipment/machine at address given above. The applicable rates of GST and amount should be clearly mentioned in the financial bids. If no bifurcation is provided the rates quoted in bids will be considered final with no escalation applicable at any stage.**
19. NIF shall, upon evaluation of the bids submitted, award the contract to the lowest bidder (L1).
20. The list of machines is given in Annexure 2, and detailed specification of machines is mentioned in annexure 3.

21. Submitted quotations should be valid for at least 60 days
22. The vendor should supply machines within **30 days** of placing the purchase order.
23. Vendor has to set up and demonstrate and extend adequate hands on training of the machine/equipment, without doing that, the delivery would not be deemed to be complete.
24. Brand new well functional machines with finest finishing must be supplied, the delivery of machines not fulfilling the same, shall not be accepted.
25. In case the quotation is being submitted by authorized agent of the principal manufacturing company, the authorised sales agency ship certificate from the principal should be furnished along with the quotation. Quotations without this authorization certificate will be rejected.
26. The cost/bid should include comprehensive warranty for at least 2 years and one-year free service.
27. The cost should include cost of software's/programmes needed to make the machine/equipment fully functional. In case third party software has to be used, the licence of software in the name of National Innovation Foundation (NIF) must be provided with validity not less than three years.
28. Special discount/rebate wherever admissible keeping in view that items are being procured for educational purpose in respect of Public Institution of national importance may please be indicated.
29. Vendors should attach the relevant brochure/leaflet for the models/options quoted.
30. Vendors should attach users list with their contact details including address, email id and phone number.
31. Necessary certificate should be enclosed by the vendor in case of proprietary nature of the quoted items.
32. Incomplete and conditional submitted tenders would be summarily rejected.
33. Late/delayed tenders received at the venue mentioned above due to any reason, whatsoever, will not be accepted under any circumstances.
34. The Bidder shall bear all costs associated with the preparation and submission of its Bid. NIF shall, in no case, be responsible or liable for these costs, regardless of the conduct or the outcome of the Bidding process.
35. The tenderer should sign (not initials) at each page of the technical and financial bid documents and all its annexures. No page should be removed/detached from the tender document.
36. In case two or more agencies are found to have quoted the same rates, the competent authority, NIF shall decide about the agency to which the offer shall be granted based on the past credentials/ report on the past performance of the firm, and length of experience etc. The decision of the competent authority, NIF shall be final and binding, and no communication in this regard will be entertained.
37. The 80 % payment will be released after delivery of machines/ equipment in good condition, successful commissioning, installation, testing of machines or equipment.
38. The 20% payment will be released after satisfying all the conditions as per the tender terms and condition, satisfactory functioning of the

machines/equipment supplied and after furnishing of Guarantee/ Warranty documents and performance security.

39. The successful bidder needs to submit performance security (5% of the final price /contract value of the machine) in the form of Demand Draft/Direct Transfer (NEFT/RTGS) / Bank Guarantee from a Nationalized/Scheduled bank within 7 (Seven) days from issuance of work order, which should be valid for a period of 90 days beyond the completion of all contractual obligations of the supplier including warranty period.
40. The Performance security shall be forfeited and credited to the Institute in the event of breach of contractual obligation by the supplier, in terms of relevant contract.
41. NIF reserve the rights to cancel the tender, without giving any reasons.
42. The conflicts or disputes that may arise in relation to the subject, content, interpretation, implementation and enforcement of this agreement will be solved, firstly, by the Dispute Resolution Committee setup jointly for good governance and then, by equity arbitration. In the event, efforts by Dispute Resolution Committee and an equity arbitration attempt fails, then the legal jurisdiction to be approached shall be within the jurisdictions of Ahmedabad only.

#### **Special Conditions of Contract:**

1. **FORCE MAJEURE** The Parties hereto shall be relieved from the performance of the obligations as herein contemplated or from any penal consequences on account of non-performance which is attributable directly to force majeure conditions, which conditions are not in the power, domain or control of the Party affected. The Party seeking protection of such force majeure condition shall be required to send a notice of the existence and continuation of such conditions to the other Party and only thereupon the suspension of obligations shall follow. For this purposes hereof, force majeure conditions shall mean n event beyond the control of the Party and not foreseeable by the Party and shall include events of floods, explosions, riots, wars, hurricane, epidemics, any other Act of God, quarantine restrictions, terrorism, government actions and provided always that such acts result in the impossibility of the further performance of the contract.
2. **INTERPRETATION** In case of any dispute with regard to the interpretation of any of the provisions of this document or to the due performance in accordance with the contract terms, the decision of Director, NIF will be final and binding.
3. **ASSIGNMENT AND SUB-LETTING/SUB-CONTRACTING PROHIBITED**  
The Successful Bidder shall not directly or indirectly assign or sub-let any part of the contract to any other party or agency.
4. **TERMINATION**
  - A. NIF may terminate the contract if any of the following events occur :-

- i. Successful Bidder is adjudged as insolvent.
  - ii. Successful Bidder has abandoned the contract i.e. the Successful Bidder fails to perform the obligations under the contract for a period of One month.
  - iii. Any of the licenses, permissions or registrations of the Successful Bidder as required under the applicable laws are discontinued/ cancelled or not renewed in time.
  - iv. Successful Bidder has neglected or failed persistently to observe or perform his obligations under the contract or performs unsatisfactorily
  - v. The Successful Bidder is found to have acted in breach or violation of any of the safety norms persistently, applicable labour and other laws in relation to the contract and his obligations therein.
  - vi. The Successful Bidder commits a breach of the contractual terms and conditions.
  - vii. In the opinion of NIF, it is desirable to discontinue with the performance of the contract with the Successful Bidder.
5. NIF shall give the Successful Bidder a Seven days' notice period to rectify the breach, failing which the contract shall stand terminated on the last date of the notice period without requiring any further notice from NIF in that behalf. Upon such termination, the outstanding dues of the Successful Bidder shall be settled subject to the amounts recoverable by NIF under the contract from the Successful Bidder.
  6. The Performance Security Deposit amount shall be forfeited if the contract is terminated by NIF on account of the above.
  7. INDEMNITY The Successful Bidder shall indemnify and keep harmless NIF from and against all actions, proceedings, claims, demands, losses, costs, damages and expenses whatsoever which may be brought against or suffered by NIF which it may sustain, pay or incur as a result of or in connection with the performance/ purported performance/ non-performance of the contract by the Successful Bidder, including but not limited to, any liability or action occurring on account of any litigation, court or government orders.
  8. AMENDMENT No amendment or modification or waiver of any provision of these presents, nor consent to any departure from the performance of any obligations contained herein, by any of the Parties hereto, shall in any event be valid and effective unless the same is in writing and signed by the Parties or their duly authorized representative especially empowered in this behalf and the same shall be effective only in respect of the specific instance and for the specific purpose for which it is given.
  9. SETTLEMENT OF DISPUTES (1) Any disputes or difference between parties arising out of the contract to the extent possible shall be settled amicably

between the parties. (2) If amicable settlement cannot be reached all the disputed issues shall be resolved by Competent Authority NIF and his decision shall be final. If needed, Competent Authority NIF may constitute a Committee to resolve the dispute.

10. GOVERNING LAW & JURISDICTION This contract shall be governed by the Laws of India and the Courts at Ahmedabad shall have exclusive jurisdiction to try and disputes arising hereunder.

**Annexure 1:****Format for technical bid of the tender (NIF/2020/ADM/002)****Tender submitted for supply of .....(name of machine /equipment)**

Sl. No.	Description of requirement	Enclosed	Enclosure No.
1.	Whether the firm is registered with proprietary firm, Partnership firm, Limited Company, Corporate body legally constituted engaged in manufacturing / marketing of production machines / equipment	Yes/No	
2.	Declaration by the bidder that he /she has not been blacklisted by the Department /Ministries of the Govt. of India/State Govt./PSUs	Yes/No	
3.	Copies of Audited Balance Sheet, Profit & Loss Statement and Income Tax Return for last 3 years duly certified by CA (2016-17, 2017-18, 2018-19)	Yes/No	
4.	Copy of Registration Certificate of the firm	Yes/No	
5.	Copy of PAN/TAN/GST issued by Income Tax Dept.	Yes/No	
6.	Partnership deed, if applicable	Yes/No	
7.	Details of other organizations where similar machines have been supplied (copy of five recent work orders to be attached) (2016-17, 2017-18, 2018-19)	Yes/No	
8.	Demand draft of Rs...../-as EMD enclosed in separate envelope along with Technical Bid	Yes/No	
9.	Technical specification/Brochure of the machine	Yes/No	
10.	Financial Bid sealed in a separate envelope	Yes/No	

Declaration of the Tenderer:-

This is to certify that I/We before signing this tender have read and fully understood all the terms and conditions contained herein and undertake myself/ourselves to abide by them.

(Signature of Tenderer with seal) Name:

Place:

Seal :

Date:

Office Address:



## List of machines

S. No.	Machine name	Number of units	Estimated price, Rs	EMD, Rs
1.	Injection moulding machine	1	20,00,000	40,000
2.	Gear Hobbing machine	1	10,00,000	20,000
3.	Desktop vacuum forming machine	2	3,00,000	6,000
4.	Pressure die casting machine	1	15,00,000	30,000
5.	Plant for powder coating	1	30,00,000	60,000
6.	CNC router	1	10,00,000	20,000
7.	Arm type- electric tapping machine	1	4,00,000	8,000
8.	Cutting tools for vertical machining centre (VMC)	-	4,00,000	8,000
	Total		96,00,000	1,92,000

**Details of machines along with specifications**

**1) Injection Moulding Machine**

<b>Particular</b>	<b>Specification</b>
Technology	Horizontal, fully automatic screw type double cylinder injection moulding machine
Target material	Thermosetting resins including Acrylonitrile - Butadiene -Styrene )ABS(, Nylon PA, Polycarbonate PC, Polypropylene, Polystyrene, GPPS, etc.
Drive	Servo motor driven
Controller	PLC -Mirle )Lubi /(Streamline
Feeding type	Horizontal
Shot weight	20 -250 g
Screw diameter	Between 35-48 mm
L/D Ratio	20:1
Screw speed	200 rpm
Heating capacity	More than 8 kW
Mold height	150-550 mm
Ejector stroke	Up to 140 mm
Ejector tonnage	50
Hydraulic pump	Servo motor )preferably Lubi/KEB/Gefran(
No .of ejector	Nine
Ejector force	70 ton
Point toggle	Five
Screw Barrel	Colour mix with gas nitriding
Sensors	Oil temperature sensor, Screw RPM sensor
Hand safety	PLC alarm, hydraulic dump valve, electric switch
Motorized mold setting	Automatic
Lubrication	Auto with PLC controlled
Accessories	All standard accessories including Hopper dryer, vacuum loader, FRP water cooler, suitable size water pump set of standard make, PLC, power supply, etc .required for making machine functional to be included .The machine should have provision of adjustment of injection volume according to job size.

## 2) Gear Hobbing Machines

Particulars	Specifications
Module	5
Maximum Diameter of Gear with support	500 mm
Minimum Diameter of Gear	10 mm
Minimum number of Teeth	6
Maximum Helical Gear cutting	45 Deg
Diameter of Work table	More than 300 mm
Maximum Diameter of Hob	110 mm
Hob Arbour	32 mm
Main Drive Motor	Up to 3 hp
Rapid motor	1.5 hp
Coolant Pump	From reputed brand preferably
Suitability	Machine should make precision Spur, Helical Worm Gears, Splines, Sprockets, Ratchet Wheels & any other form that can be hobbled. Suitable for material including MS, SS, Aluminium, Brass, etc.
Accessories	All standard accessories including belt /pulley for power transmission, electric switch /starter, electric motors, cutting tools, etc required for making machine functional to be included
Others	Structure should be made up of non -corrosive material with finest finishing.

### 3) Desktop Vacuum Forming Machine

<b>Particulars</b>	<b>Unit</b>	<b>Specification</b>
Sheet size: i. Length	mm	300 -360
ii. Width	mm	200 -300
Sheet thickness	mm	04
Minimum sheet thickness	mm	0.2
Forming area i. Length	mm	240 -320
ii. Width	mm	170 -230
Maximum depth draw	mm	200
AC Input i. Voltage	V	100 -240
ii. Frequency	Hz	50 -60
iii. Wattage	kW	132
Noise Level	dB	65
Heater Temperature	°C	280

#### 4) Pressure Die Casting Machine

Particulars	Specification
I. Magnetic stirrer	Water cooled Magnetic stirrer including cylindrical die
Die	Diameter' 60mm x 400 mm, Heavy duty stainless steel die should withstand load 100-150 Ton
Power	3 phase magnetic Horizontal magnetic coils (3 pairs) 400/440 V/3 P/12 KW fitted in E vertical slots, separated and insulated, water cooled
Current range	0 - 500 A. (Current controller)
Frequency range	0 – 200 Hz (Frequency controller)
Temperature measurement	Temperature measurement in between die-coil and inside the melt using mineral insulated, ungrounded and Inconel sheathed k-type thermocouple
Diameter of the centre cylindrical mold space	200 mm
Magnetic Stirrer coil cooling system	Water cooling facility for the magnetic coils with provision of pumping water from small tank with motor system should enclosed in steel chamber water proof and heat proofed to the coil
<b>II. Degassifier unit</b>	Stainless steel 310 grade blade and rod mounted on the trolley with UP/DOWN movement
Rotor Speed	100—1500 RPM (vibration less) ✓ Electronic speed regulator for stirrer should be provide along with digital indication and control.
Degassing rotors	1. Removable BSP steel porous plug 2. Degassing tube open ended BSP steel both should with stand temperature upto 1600 deg Celsius
Degassing	Pressure gauges, mixing unit and controls should be given for the supply of gas ✓ The entire system should be movable on a trolley.
<b>III. Furnace</b>	Fully automatic stir casting facility with press casting
Pouring	Automatic bottom Pouring facility with proper control switches
Temperature	Up to 1400 deg C
Stirrer rpm with display	3000 rpm max. & Electronic Display with up and down
Material to be melted	Aluminum alloys
Mixing	Direct injection type slow mixing with the melt
	Built in control panel, arrangement should be made, PID temperature indicator, RPM indicators
Power	400/440 V/3 P/12 KW

<b>IV. <u>Pressure Casting unit</u></b>	Vertical Squeeze Casting Unit Machine
Construction	2 Pillar Construction Ejection Force 0-50 Tons <ul style="list-style-type: none"> <li>• Main Platen Size, 50X250mm</li> <li>• Day Light Opening 400 mm Max. 200 mm Min.</li> <li>• Main Stroke 200 mm</li> <li>• Ejection Stroke 200 mm</li> <li>• Moulding Form Area 120 mmX120mmX250mm</li> </ul>
Capacity	100-150 Ton
Die casting setup (mild steel)	40 mm x dia 300mm
Die heater	0 to 500 deg. Celsius, Built in control panel, arrangement should be made in the main furnace pane, The pressure should be indicated and control through set point controller.
<u>Other accessories /consumables needed along with equipment: Thermocouples- K, J Type (5 Nos). Multimeter with temperature probe 1No, etc to be supplied by the vendor</u>	

### 5) Plant for Powder Coating

<b>Particulars</b>	<b>Specification</b>
Technology	Plant for powder coating, suitable for Mild Steel /Stainless Steel, Aluminum, Zinc alloys, Cast iron, etc. The plant should include all sub systems /equipment /accessories required for fulfilling the job, desired specification of major subsystems is given below
Pre -Treatment Plant	Dip chemical treatment, Iron exchange based DM water treatment plant, Degreasing Plant chemical container sized - suitability fit according to max work sized to be coated
Max. work size to be coated	Length -1500 mm Width -500 mm Height -1200 mm
Load carrying Capacity	20 -50 kg
No of hangers	Minimum 8
Conveyor type	Overhead conveyor   Beam conveyors
Conveyor pitch Length	Minimum 800 mm
Conveyor drive	Variable speed power motor
Powder spraying Guns	Automatic guns on reciprocators
Powder coating Booth	according to maximum size to be coated )as mentioned above(
Curing oven Size	Tunnel Type Curing Oven, Electric Heaters With Air Circulation (According Max Sized to be Coated)
Control Panel	Supervisory Controls And Data Acquisition based control Panels (SCADA ) Based Control Panel
Accessories	All standard accessories, electrical and electronic systems, Required number of gas cylinders, gas pipes of required length, regulators, manifold, pressure gauges and other necessary accessories needed to perform the powder coating of job size given above to be provided by the supplier .The specification of the manor accessories needs to be mentioned in the technical bid clearly.

## 6) CNC ROUTER

Particulars	Specification
Working Area (X, Y, Z)	1300 x 2500 x 200 mm
Suitable for materials	Suitable for sheet processing, cutting, slotting, engraving, etc. Suitable for working in material like wood, foam sheet, acrylic sheet, plastic, PVC, plywood, medium density fibreboard (MDF), and aluminium composite material (ACM).
Spindle	6 kW Air Cooled (Italian make)
Spindle Speed	18000 RPM
Traveling Speed	25 m/ min
Cutting Tool Diameter	Ø3 to 20 mm
Table Structure	Heavy duty rigid mild steel frame structure
Operating System	High Speed PIC based Controller
Driving System	AC Servo Motor (Mitsubishi/YASAKWA (Reputed JAPAN Make)
Power Supply	AC 440V/3 Phase
Distance Between Bed and Gentry	200 mm
Interface	USB, Ethernet
Repeatability	0.020 (+/-mm)
Bed System	Vacuum and clamp based system
Mechanism for Z direction -	Ball screw
Command	CAD/CAM Software with G Code
Software	Licensed version (having at least 5 years permission to free use)
Accessories	The bidder should quote the price including cost of all essential accessories, tools, bits, tool kit, softwares, etc to make the machine fully functional with rotary attachment on bed.



## 7) ARM TYPE - ELECTRIC TAPPING MACHINE

<b>Particulars</b>	<b>Specification</b>
Capacity (mm)	M6-M32
Working Radius (mm)	2000 mm
Chuck size (mm)	48
Motor type	Servo
Power (kW)	1.5
Speed (rpm)	0 - 200
Depth adjustment	Automatic
Accessories	Machine should be compiled with required accessories to make it fully functional
Others	Suitable for materials including high grade steels. Structure should be made up of non-corrosive material with finest finishing.

## 8) Cutting Tools for Vertical Machining Centre (VMC)

Sr. no.	Requirement	Quantity
1	Insertable Endmill Cutter Dia 16 (Standard size)	1 nos
2	Insert For Dia 16 Cutter	20 nos
3	Insertable Endmill Cutter Dia 16 (Standard size)	1 nos
4	Insert For Dia 16 Cutter	20 nos
5	Insertable Endmill Cutter Dia 20 (Standard size)	1 nos
6	Insert For Dia 20 Cutter	20 nos
7	Insertable Endmill Cutter Dia 20 (Long size)	1 nos
8	Insert For Dia 20 Cutter	30 nos
9	Insertable Endmill Cutter Dia 25 (Standard size)	1 nos
10	Insert For Dia 25 Cutter	30 nos
11	Insertable Endmill Cutter Dia 25 (Long size)	1 nos
12	Insert For Dia 25 Cutter	30 nos
13	Insertable Endmill Cutter Dia 32 (Standard size)	1 nos
14	Insert For Dia 32 Cutter	30 nos
15	U-Drill Dia 16 (L/D 3)	1 nos
16	Insert For U-Drill	50 nos
17	U-Drill Dia 20 (L/D 3)	1 nos
18	Insert For U-Drill	50 nos
19	U-Drill Dia 25 (L/D 3)	1 nos
20	Insert For U-Drill	50 nos
21	Dia 25 High Feed Cutter	1 nos
22	Insert For High Feed Cutter	50 nos
23	Inserts For Fine Boring Kit	Pack of 10
24	Inserts For Fine Boring Kit	Pack of 10
25	Inserts For Fine Boring Kit	Pack of 10
26	Inserts For Fine Boring Kit	Pack of 10
27	M2 size tap	1 nos
28	Drill for M2 size tap (dia 1.6)	1 nos
29	M3 size tap	1 nos
30	Drill for M3 size tap (dia 2.5)	1 nos
31	M4 size tap	1 nos
32	Drill for M4 size tap (dia 3.3)	1 nos
33	M5 size tap	1 nos
34	Drill for M5 size tap (dia 4.2)	1 nos
35	M6 size tap	1 nos
36	Drill for M6 size tap (dia 5.0)	1 nos
37	M8 size tap	1 nos
38	Dril for M8 size tap (dia 6.8)	1 nos
39	M10 size tap	1 nos
40	Dril for M10 size tap ( dia 8.5)	1 nos
41	M12 size tap	1 nos
42	Dril for M12 size tap (dia 10.2)	1 nos
43	3 meter Band Saw Blade	1 nos