

**INDIA GOVERNMENT MINT, MUMBAI
A UNIT OF SECURITY PRINTING AND MINTING CORPORATION
OF INDIA LIMITED (SPMCIL)
(WHOLLY OWNED BY GOVERNMENT OF INDIA)
SHAHID BHAGATSINGH ROAD, FORT, MUMBAI 400 001
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<http://www.eprocure.gov.in>

**TENDER DOCUMENT FOR UPDRAGATION OF IMPALA 400 CNC
ENGRAVING MACHINE AND LDIGIT300 DIGITAL SCANNER**

TENDER NO. 6000017535 DATED :20.05.2022

THIS TENDER DOCUMENT CONTAINS 14 PAGES

Tender Document is sold to :

LANG GmbH & CO. KG (200013)
Dillstr, 4,
D-35625 Huttenberg, Germany

Details of Contact person in SPMCIL regarding this tender :

Name : BIMAL PRASAD DHAL

Designation : Chief Purchase & Stores Officer

Address : India Govt. Mint, Mumbai
India

SECTION I: NOTICE INVITING TENDER

Tender No.: 6000017535

Date.: 20.05.2022

1. India Government Mint, Mumbai (A unit of SPMCIL), Shahid Bhagat Singh Road, Fort, Mumbai - 400001, invites sealed tenders from eligible and qualified tenderers for below mentioned:

Schedule No.	Brief description of goods/services	Quantity (with unit)	Earnest Money Deposit (Rs.)	Remarks
01.	Supply of items for Upgrade to LNC express for IMPALA 400 (List of Spares from 1A to IH of Section VII - Technical Spec.)	1.000 AU	NIL	
02.	Supply of items for Up-gradation of of Lang Make LDIGIT300 Digital Scanner to Conopoint 10 Laser Head (List of Spares from 2A to 2B of Section VII - Technical Spec.)	1.000 AU		
03.	CAD & design, Software Package for Lang IMPALA 400	1.000 SET		
04.	Set-up and commissioning for Sr. no1, 2, 3 (as per section VII specification)	1.000 AU		
05	Training for machine and software	1.000 AU		
Detailed specification in Section VII				
Type of Tender		ONE-BID PROPRIETARY ARTICLE CERTIFICATE		
Date of sale of tender documents:		20.05.2022		
Place of sale of tender documents:		Not applicable		
Closing date and time for receipt of tenders		21.06.2022 upto 02.30 P.M.		
Place of receipt of tender		India Government Mint, Mumbai		
Time and date of opening of tender		21.06.2022 at 03.00 P.M.		
Place of opening of tender		India Government Mint, Mumbai		
Nominated Person/Designation to receive bulky tenders (Clause 21.1 of GIT)		CHIEF PURCHASE & STORES OFFICER INDIA GOVERNMENT MINT, MUMBAI		
Officer to be contacted for clarifications/help:		CHIEF PURCHASE & STORES OFFICER		

1. India Govt. Mint, Mumbai invites the quotation for the procurement of items as mentioned in above schedule.. You are therefore, requested to send the dully filled tender for the same on or before closing date and time for receipt of tender by E-mail and sent original copy by post. The tender to be sent in the favour of the Chief General Manager, Shahid Bhagat Singh Road, Fort, Mumbai.

2. Tenderer may also download the tender documents from the web site igmmumbai.spmcil.com or <http://www.eprocure.gov.in> and submit its tender by utilizing the downloaded document, the bidder must not make any changes to the contents of the documents, except for filling the required information. A certificate to this effect must be submitted by the bidder in the Tender Form (Section X).
3. .If the supplier fails to deliver any or all the goods or fails to perform the services within the time frame incorporated in the contract, IGM Mumbai shall, without prejudice to other rights and remedies available to IGM Mumbai under the contract, deduct from the contract price, as LIQUIDATED DAMAGES, a sum equivalent to 0.5% percent of the delivered price of the delayed goods and/or services for each week of delay or part thereof until actual delivery or performance to maximum 10% of undelivered goods or incomplete order. In all such cases, GST would be applicable on LD.
4. Performance Security: The Performance Security shall be 3% of total cost of the purchase Order. The security shall be accepted in the form of Bank Guarantee from Scheduled Commercial Bank in India or any international bank having branch in India and it will have to be paid by the seller within 21 days from of issue of Notification of Award/ LOI after which Purchase Order will be placed. The Bank Guarantee should remain valid for a period of 60 days beyond the date of completion of all contractual obligations of the contractor, including warranty obligations. Performance Security will be refunded to the contractor without any interest, whatsoever, after it duly performs and completes the contract in all respect but not later than 60 days of completion of all such obligations under the contract.
5. Bidder or his duly authorized representative (with authorization letter) can attend the tender opening if they wish to do so.
6. The Chief General Manager, India Government Mint, Mumbai's right to accept any tender and to reject the tender. without assigning any reason or to cancel the tendering process and reject all tenders at any time prior to award of contract, without incurring any liability, what so ever to the affected tenderer.
7. All payment to supplier for the supply of the full consignment would be made through Irrevocable Letter of Credit.
 - a. 80% cost of spares will be made against proof of invoice and shipping documents.
 - b. Balance 20% payment of cost of spares, travel cost, software package cost + 100% Assembly charges will be made on issue of FAC from user department and after deduction of statutory levies like TDs etc. if applicable. Invoices for the cost of the spares and the cost of service/labour charges shall be submitted separately for the purpose of payment of customs Duty. Any duties and taxes arising due to non-compliance of the above will be recovered from the cost of the spares.
8. Place of Jurisdiction: Mumbai, India. As per Indian Law.

Sd/-

Chief Purchase and Stores Officer
For and on behalf of :
FOR CHIEF GENERAL MANAGER

SECTION II :- GENERAL INSTRUCTIONS TO TENDERERS (SIT)

For details regarding General Instruction of Tenderers (GIT) please refer to our website <http://www.spmcil.com/spmcil/UploadDocument/GIT.pdf>.

SECTION III :- SPECIAL INSTRUCTIONS TO TENDERERS (SIT)

The following Special Instructions to Tenderers will apply for this purchase. These special instructions will modify/ substitute/ supplement the corresponding General Instructions to Tenderers (GIT) incorporated in Section II. The corresponding GIT clause numbers have also been indicated in the text below:

In case of any conflict between the provision in the GIT and that in the SIT, the provisions contained in the SIT shall prevail.

Sl. No.	GIT Clause No.	Topic	SIT Provision
1.	4	Eligible Goods and Services (Origin of Goods)	The country of origin of the goods supplied to be clearly mentioned.
2.	11.2	Tender Currency	Supplier is requested to quote price in EURO within 2 decimal place. Quotation with price quote beyond 2 decimal place is ignored
3.	19	Tender Validity	180 days

SECTION IV :- GENERAL CONDITIONS OF CONTRACT (GCC)

For details regarding General Conditions of Contract (GCC) please refer to our website <http://www.spmcil.com/spmcil/UploadDocument/GCC.pdf>.

SECTION V: SPECIAL CONDITIONS OF CONTRACT (SCC)

The following Special Conditions of Contract (SCC) will apply for this purchase. The corresponding clauses of General Conditions of Contract (GCC) relating to the SCC stipulations have also been incorporated below. These Special Conditions will modify/ substitute/ supplement the corresponding (GCC) clauses.

Whenever there is any conflict between the provision in the GCC and that in the SCC, the provision contained in the SCC shall prevail.

(Clauses of GCC listed below include a possibility for variation in their provisions through SCC. There could be other clauses in SCC as deemed fit).

Sl. No.	GCC Clause No	Topic	SCC Provision
1.	8.2, 8.2, 8.3	PACKING AND MARKING	The packing for the goods to be provided by the supplier should be strong and durable enough to withstand, without limitation entire journey during transit including transshipment. Each Package shall have the mark clearly stenciled indelible paint on two opposite sides and top by the supplier at their own cost with the spare memo and contract number and date, brief description of goods including quantity, packing list reference number, country of origin, name & address of the consignee, the gross and net weight of the package, name of the supplier.
3.	16.2, 16.4	WARANTEE CLAUSE	The Warranty period for material and workmanship is 01 year from the date of issue of Final Acceptance Certificate. The software support should be at least 10 years from the date of installation.
4.	21	TAXES AND DUTIES	Bidders have to quote only on FOB and CIF basis. GST applicable for domestic transaction.
5.	22,22.1, 22.2, 22.3, 22.4,22.6	Terms and mode of payment	PLEASE SEE SECTION 1 NIT POINT NO.7

SECTION VI: LIST OF REQUIREMENTS

01.	Supply of items for Upgrade to LNC express for IMPALA 400 (List of Spares from 1A to IH of Section VII - Technical Spec.)	1.000 AU
02.	Supply of items for Up-gradation of of Lang Make LDIGIT300 Digital Scanner to Conopoint 10 Laser Head (List of Spares from 2A to 2B of Section VII - Technical Spec.)	1.000 AU
03.	CAD & design, Software Package for Lang IMPALA 400	1.000 SET
04	Set-up and commissioning for Sr. no1, 2, 3 (as per section VII specification)	1.000 AU
05.	Training for machine and software	1.000 AU

1) Required terms of Delivery and Destination:

- a) Spares to be delivered within 16 weeks from date of placing Purchase Order. Subsequently, upon receipt of the spares at India Government Mint, Mumbai, Up gradation of the machines to be carried out at the works of I.G. Mint, Mumbai within 45 days from the date of intimation to the firm by I.G. Mint, Mumbai.
- b) Material to be delivered on FOB sea port Germany or CFR/CIF, Navasheva Sea Port, Mumbai (INCOTERMS 2020) as decided at the time of placing Purchase Order.

Custom duties, applicable taxes and other local expenses for door delivery basis will be borne by the IGM, Mumbai. The custom clearance and transportation from Mumbai Port to IG Mint, Mumbai premises shall be arranged by IGMM through its dedicated agency.

SECTION VII : TECHNICAL SPECIFICATIONS

SCOPE OF WORK

1] UPGRADE TO LNC EXPRESS FOR IMPALA 400,

Up gradation of existing LANG IMPALA 400 MCG (Sl. no.0111-4500-60) CNC turning and Engraving machine, make: M/s LANG GmBH Germany, Year of manufacture 2001-12-12 from MCG control system to LNC express system. The scope of work includes Supply of required spares, equipment's, structures, assembly's upgraded software with Installation, integration Testing and commissioning on existing IMPALA 400 CNC Engraving machine for up gradation. dismantling, removing and taking out all existing old systems and equipment's. M/s LANG will take custody of old Controller, control panel and frequency converter which are obsolete and no more required

Purpose of Up gradation:- To achieve better performance along with Higher speed, Higher acceleration and more flexibility, comfort during machine operation i.e. micro steps / motor rotation 1,638,400, Feed rate: 9M/min, rapid traverse: 9M/min, acceleration:1700 mm/s², new feature of engraving on concave surface and design impression on periphery of Cylindrical object from segment collar, achieve latent imaging and frosting effect with provision of three jaw chuck for above said requirement, latest user friendly Window 10 Operating system and latest design software package.

Items to be Supplied

1(A): V8512-400-000 Qty : 01 AU

The standard update-package required includes:-

- a. Exchange of the existing control with LNC-Express control
- b. Exchange of the existing control panel
- c. Exchange of the existing PC including TFT-monitor with a new IPC and monitor.
- d. Exchange of motors and related switchgear cables wires as required.
- e. Exchange of the limit switches and connecting lines.
- f. Exchange of the existing spindle generator with new generatorSD2S.
- g. New hand-held control unit with hand wheel encoder and tip mode.
- h. Replace the present power electronics with a new standing control cabinet (EMC trouble free structure)
- j. Latest version of output software L Driver.
- k. Set of precision pressure controller for weight compensation

Control equipment :

- a. 4-axis servo- and step motor control LNC express in switch cabinet case
- b. 32 digital inputs and outputs
- c. Servo- and step motor operation
- d. Encoder analysis in all axes

Control concept :

1. Hand-held control unit with hand wheel encoder and tip- mode.
2. Complete security concept with speed control, shutdown and spindle shutdown monitoring system.
3. Spindle rotation speed potentiometer with $\pm 50\%$ override.
4. Control elements: emergency shutdown, key switch, enable button, tool cooling button and hand- held control.

1(B) Z-4314-005-000-000: Qty.01 no

Set of precision pressure controller for weight compensation

1(C) 8512-4500-000-000 - Qty.01 no

Set of motor flanges and accessory

1(D) Z-4500-012-001-000 - Qty.01 no

Set of weight compensation cylinder

1(E) H6010-000-000-000 - Qty.1 no

Circular Engraving device RGV 12

1(F) 3512-04-5700-610 - Qty 01 no

Connection for MCG RGV for Upgrade to LNC express

1(G) H6012-005-000-000 - Qty.1

3- Jaw chuck diameter 80

jaws concentrically gripping,

Equipment/Technical Data: complete cast iron body set with 1 set of outward stepped jaws,1 set of inward stepped jaws,1 operating key, Set of all.

1(H) 9000-3000-001-003 Qty.01 set.

CAD and Design software Package LErgo CAD 3D Version 6.1 and Relief designer version 6.0 -

1(I) Documents for Operation and maintenance:- After completion of Up gradation work ,M/S

LANG will have to provide 03 hard bound copies of revised electrical circuit diagram for whole machine and its equipment's, Operating manual for machine, drawings ,fault diagnostics, details/product catalogues of all major electrical and electronics equipment's, electrical , electronic and mechanical spare parts list, PLC programme/Machine software/ ladder diagrams in hard bound to understand logic while fault diagnostic, list of probable faults with remedies, Maintenance schedules, Detail documentation with pictorials for use of CAD and Design Software.

1(J) Services required:-

1. Set up and commissioning of LNC Express control: 08 working days.
2. Training for machine and Software: 04 working days

1(K) FAC: After successful completion of Up gradation work, M/s LANG will have to give On Load trials of Upgraded machine for 02 working days (08 hrs /Shift) to the satisfaction of IGMM Engraving officials. IGMM will provide the required material and design to be engraved for the On Load trials.

1(L)WARRANTY: For material and workmanship 01 year from the date of Final Acceptance Certificate issued by IGMM.

1(M) After sales Service support: M/s LANG will have to provide required after sales service support for minimum 10 years for Upgraded machine.

2] FOR UPGRADE TO CONOPOINT 10 Laser for LDIGIT 300, S/No: 1211-H022-05

Scope:

Up gradation of existing LANG LDIGIT 300 Digital scanner, make M/s LANG GmbH Germany, Year of Manufacturing : 2012, 1 KVA, 230 Volts, 50 Hertz from Conoprobe to Conopoint 10 laser. Qty:01 AU. The scope of work includes Supply of required spares, equipment's, upgraded software with Installation, integration Testing and commissioning on existing LANG LDIGIT 300 Digital scanner for up gradation. Including dismantling, removing and taking out all existing old systems and equipments

Purpose of Up gradation:-

To Upgrade the Z Axis laser scanner sensor from Conoprobe to Conopoint 10 complete with required, hardware and software to bring the machine to functionality/production

Items to be Supplied

2(A)- (Z-3059-04-1000-600)- Set for Upgrade from Conoprobe to Conopoint for LDIGIT 300

The standard update-package required includes:-

- a. Conopoint 10
- b. Machine IPC17
- c. Monitor 19"
- d. Software Relief designer Scan
- e. Control Unit for LDIGIT 300 Upgrade
- f. Lense 25 mm
- g. Lense 50mm
- h. Lense 75 mm
- i. Lense 100mm

2(B)- 0450900720 - Qty01 No (as additional spare)

Conopoint 10 Laser head including 10 meter cable (excluding lenses for direct replacement as and when required in future after Up gradation.

2(C)- Services required:-

1. Set up and commissioning for upgradation : 05 working days

2(D) FAC: After successful completion of Up gradation work, M/s LANG will have to give On Load trials of Upgraded machine along with operational training for use of new software for 02 working days out of 05 working days(08 hrs /Shift) to the satisfaction of IGMM Engraving officials. IGMM will provide the required material for digital scanning for On Load trials.

2(E) Warranty: for material and workmanship 01 year from the date of Final Acceptance Certificate issued by IGMM.

2(F) After sales Service support: M/s LANG will have to provide required after sales service support for minimum 10 years for Upgraded machine except Laser Scanner(Conopoint 10), for which after sales support will last up to end of Year 2024.

2(G) Documents for Operation and maintenance:- After completion of Up gradation work ,M/S LANG will have to provide 03 hard bound copies of revised electrical circuit diagram for whole machine and its equipment's, Operating manual for machine, drawings ,fault diagnostics, details/product catalogues of all major electrical and electronics equipment's, electrical, electronic and mechanical spare parts list, PLC programme/Machine software/ ladder diagrams in hard bound to understand logic while fault diagnostic, list of probable faults with remedies, Maintenance schedules, Detail documentation with pictorials for use of Design.

SECTION XI : PRICE SCHEDULE

Adhering to the format given below is a pre-requisite for considering your quotation. Price should be quoted on both FOB and CIF basis. Custom duties and any other charges will be borne by the Purchaser.

Sr. No.	Description	QTY	HS Code	Basic price in Euro
A	Up-gradation of LNC express for IMPALA			
1	V8512-400-000: The standard update packages of components Up-gradation of LNC express for IMPALA 400 (ref: detail list as per 1A of section VII)	01		
2	Z-4314-005-000-000 : Set of precision pressure controller for weight compensation	01		
3	8512-4500-000-000 : Set of motor flanges and accessory	01		
4	Z-4500-012-001-000 : Set of weight compensation cylinder	01		
5	H6010-000-000-000 : Circular Engraving device RGV 12	01		
6	3512-04-5700-610 : Connection for MCG RGV for Upgrade to LNC express	01		
7	H6012-005-000-000 : Jaw chuck diameter 80 (ref: 1G of section VII)	01		
8	9000-300-001-003 : CAD and Design software Package	01 Set		
9	Total cost of items for A (1+2+3+4+5+6+7+8)			
B	Upgradation of of Lang Make LDIGIT300 Digital Scanner			
10	(Z-3059-04-1000-600) Set for Upgrade from Conoprobe to Conopoint for LDIGIT 300(Z-3059-04-1000-600) as under : (ref: as listed 2A of section VII)	01 Set		
11	0450900720 -Conopoint 10 Laser head including 10 meter cable (excluding lenses Ref : as mentioned in 2B)	01		
12	total cost of items for B (10+11)			
13	total cost of items for A & B			
14	Setup and Commissioning cost for Sr. No A & B in India (as per 1(J)1 & 2(C) of Section VII)			
15	Training Cost for machines and software for item (Sr. no A only) in India			
16	Total cost for A & B on FOB basis including set-up, commissioning and training cost (13+14+15)			
17	Insurance upto Nhava Seva Port, Mumbai, India			
18	Freight upto Nhava Seva Port, Mumbai, India			
19	Grand Total cost for A & B on CIF basis (16+17+18)			

Grand Total cost on FOB basis in figures:

Grand Total cost on CIF basis in figures:

Signature of bidder with date
(WITH NAME, DESIGNATION AND SEAL)

Note :

- i. The Price shall be quoted exactly as per the formats given above on FOB (German Port) as well as CIF (MUBAI PORT) basis. The IGM, Mumbai reserves the right to place the order either on FOB or CIF.
- ii. Price Bids with condition/counter conditions are liable for rejection.
- iii. Firm has to quote the price in Euro and within 2 decimal place. Quotation with price quotes beyond 2 decimal place shall be ignored.

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