

TENDER

**SUPPLY AND INSTALLATION OF
MACHINERY EQUIPMENTS AND HAND TOOLS
FOR
ELECTRICIAN TRADE.**

**NSIC Technical Services Centre, Howrah
National Small Industries Corporation Ltd.
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**NSIC- Technical Services Centre, Howrah
National Small Industries Corporation Ltd.
(A Govt. Of India Enterprise)
P.o. Balitikuri, Japani Gate, Howrah-711 113**

Ref. No. :- NTSC(H)/ELECTRICIAN /11-12

Dated:- 27.09.2011

M/s.

Subject : **Supply of Machines, Equipments and Handtools for Electrician Trade.**

Dear Sir,

Tender document (**containing 13 pages**) in respect of the supply of the above-mentioned items, as detailed on **page 3 (Index)** are forwarded herewith. Please note that the sealed tenders duly filled in will be received in the office of the General Manager on or **before 10.09.11 up to 14.00 Hrs.** The tender should be signed, dated and witnessed in all pages wherever provided for in the document and also all other pages should be signed by the Authorized Signatory.

The General Manager reserves the right to award the supply order to the tenderer. This letter shall form the part of the contract and must be signed and returned along with the tender documents.

General Manager

**NSIC- Technical Services Centre, Howrah
National Small Industries Corporation Ltd.
(A Govt. Of India Enterprise)
P.O. Balitikuri, Japani Gate, Howrah-711 113**

INDEX

Sl.No.	Description	Page No.
1.	Covering Letter to Tender Document	2
2.	Index	3
3.	Notice Inviting Tender	4
4.	Instructions to the Tenderers	5
5.	Form of Tender	6
6.	Commercial and General Terms & Conditions	7
7.	List of Machines, equipments and Handtools	8-13
	(Detailed Technical Specification of the Machines)	

**NSIC- Technical Services Centre, Howrah
National Small Industries Corporation Ltd.
(A Govt. Of India Enterprise)
P.O. Balitikuri, Japani Gate, Howrah-711 113**

NOTICE INVITING TENDER

Sealed tenders are hereby invited under two bids system (Technical bid & Commercial bid) on behalf of GM, NSIC Technical Services Centre (Howrah), Balitikuri, Japani Gate, Howrah from reputed manufacturers/suppliers having supplied similar kind of **Machinery, Equipments and Handtools** as listed in page no. 9 & 10 for **Electrician Trade** so as to reach to GM, NSIC- Technical Services Centre (Howrah), Balitikuri, Japani Gate, Howrah up to 14.00 Hrs. on 10.10.11.

a)	Name of the Supply	Machinery, Equipments and Handtools for Electrician trade
b)	Estimated Landed Cost at Howrah Centre	As given in the page no.8
c)	Cost of Tender document	Rs. 500/-
d)	Delivery and Installation Period	Within 30 days from release of order
e)	Last date of submission of completed tender documents	10.10.2011 up to 14.00 Hrs.
f)	Date of opening of Technical Bid	10.10.2011 at 16.00 Hrs.

1. Tender Documents may be downloaded from our web site www.nsic.co.in or may be collected from our office against payment of Rs. 500/-.
2. The other Terms and Conditions applicable to this tender have been incorporated in the tender documents.
3. The Competent Authority reserves the right to reject all or any tender wholly or partly without assigning any reason whatsoever.
4. Units registered with NSIC, under GP Registration Scheme are exempted from payment of Tender document cost.
5. No "C" & "D" Form will be issued by us.

INSTRUCTION TO THE TENDERERS

1. The Tender shall be submitted in accordance with these instructions and any tender not conforming thereto is liable to be rejected. This instruction shall form the part of the tender and contract.
2. The tender document should accompany the cost of Tender document of Rs.500/- by D.D. in favour of "The National Small Industries Corporation Ltd., Payable at Howrah.
3. The tender shall be complete with all documents. The tender received without tender fee shall be rejected outright.
4. The tenders shall be submitted in two separate sealed covers in the following manner

Technical Bid – Envelope- 1

Technical bid in one sealed cover containing the forwarding letter of the tender, list of latest customers who have been supplied Plant & Machinery for similar Projects, The Customer Feed Back, detailed description of the system, catalogue containing detail technical specification, list of essential spares to be supplied, ISO certification if any, details of manufacturing facility available in-house etc. along with the Demand draft for tender fee..

Commercial Bid- Envelope- 2

One sealed cover containing Forwarding letter, complete tender document indicating ex-work price, excise duties, sales tax, other duties, Payment terms, freight, delivery period and installation charges, if any.

CRITERIA FOR QUALIFYING TECHNICALLY

The following points shall be considered for qualifying the technical bids.

1. Specification of the Tenderers must match or be nearest to our specified technical specification.
2. Offered system should comprise of latest technology.
3. Tenderers should have sufficient infrastructure to justify their competence of manufacturing and supplying the system. If felt necessary their infrastructure facility shall be inspected by a team of NSIC officers.
4. Tenderers must give the list of customers whom they have supplied similar sort of Plant & Machinery for similar Projects along with their address, name of the contact person and tel. no, e-mail address, Fax etc..
5. If the Tenderers has supplied machinery to NSIC earlier, should provide those details.
6. ISO Certification would give an added weight age marks.
7. **Note:** While assessing technical Competency weight age marks will be assigned for all the above parameters.

FORM OF TENDER

The General Manager
NSIC- Technical Services Centre
National Small Industries Corporation Ltd.
(A Govt. Of India Enterprise)
P.o. Balitikuri, Japani Gate, Howrah-711 113

Subject : Supply and Instalation of Machines, Equipments and Handtools for Electrician Trade.

Dear Sir ,

HAVING EXAMINED AND PERUSED THE FOLLOWING DOCUMENTS

1. NOTICE INVITING TENDER
2. INSTRUCTION TO THE TENDERERS
3. FORM OF TENDER
4. TECHNICAL SPECIFICATION AND SCOPE OF SUPPLY
5. COMMERCIAL AND GENERAL TERMS AND CONDITION OF THE SUPPLY

We hereby submit our quoted rates valid for 90 days from the date of submission of tenders. Should our tender be accepted I/We agree :-

1. The tender document along with your letter of award or supply order shall constitute the bind contract between us and NSIC Technical services centre, Howrah.
2. In the event of failure to supply this item in full within the committed delivery period the order will be treated as cancelled.

SUPPLIER's SIGNATURE
Supplier Name & Seal

COMMERCIAL AND GENERAL TERMS & CONDITIONS

Price: - Price should be most competitive (EX- WORK PRICE).

Delivery and Installation Period: Within 30 days from release of Supply order if delayed 0.5% per week will be deducted from the basic price of the machine.

Validity of the Offer: - The offer should remain valid for a period of 90 days.

Guarantee Period: - The guarantee period should be minimum **one years** from the date of installation for any kind of defect, fault and malfunctioning.

Taxes and Duties: Taxes and duties if any shall be paid extra. No "C" & "D" Form will be issued.

Transit Insurance: - The machinery/ Equipment to be insured against damage during transit from the manufacturer's work to Howrah centre.

Freight: - Freight charges up to Howrah Centre should be at actual.

Packing: - The machinery/ Equipment shall be properly packed for safe arrival of the machine to Howrah centre.

Payment Terms:- In case the offer is accepted, payment would be released as under :

- (A) 50% against the arrival of the item in the Howrah centre and submission of 7ispatch documents.
- (B) 50% balance payment within 30 days after satisfactory installation and commissioning.

Installation and Commissioning: The machines have to be commissioned and installed in Howrah centre by the manufacturer.

Service Centres : List of Service Centres has to be provided along with the contact person & address & phone numbers.

While quoting the rate the make of each item like motors, transformers , electrical trainer, handtools etc. to be mentioned in the offer.

**LIST OF MACHINERIES IDENTIFIED FOR SETTING UP OF
ELECTRICIAN TRADE AT NTSC, HOWRAH.**

Sl. No.	Name of the Tools, Equipment & Machinery as per syllabus	Rate	Quantity	Total
	<u>Tool Kit.</u>			
1	Rule wooden 4 fold 60 mm		34 nos.	
2	Scriber 150 mm x 4 mm (Knurled centre position)		34 nos.	
3	Pincer 150 mm		34 nos.	
4	Plier insulated 150 mm		34 nos.	
5	Screw driver 150 mm		34 nos.	
6	Punch centre 150 mm x 9 mm		34 nos.	
7	Knife double bladed electrician		34 nos.	
8	Hammer, cross pein 115 grams with handle		34 nos.	
9	Electrician connector, screw driver 100 mm. insulated handle thin stem		34 nos.	
10	Electrician testing pencil I I neon Tester		34 nos.	
11	Heavy duty screw driver 200 mm		34 nos.	
12	Electrician screw driver 250 mm thin stem insulated handle		34 nos.	
13.	Rule steel 300 mm		34 nos.	
14.	Saw tenon 250 mm		34 nos.	
15.	Hammer ball pein 0.75 kg with handle		34 nos.	
16.	Firmer chisel wood 12 mm		34 nos.	
17.	Gimlet 6 mm		34 nos.	
18.	Bradawl		34 nos.	
19.	Plier sude cutting 150 mm		34 nos.	

Sl. No.	Name of the Tools, Equipment & Machinery as per syllabus	Rate	Quantity	Total amount
	<u>Shop Tools, Instruments & Machinery.</u>			
1.	C. Clamps 200 mm, 150 mm, 100 mm		2 nos.	
2.	Spanner 150 mm adjustable 15 degree as cly-burns		2nos.	
3.	Blow lamp 0.5 litre		2 nos.	
4.	Melting pot		1 no.	
5.	Chisel cold flat 12 mm x 200 mm		2 nos.	
6.	Chisel wood firmer 25 mm and 6 mm		4 nos.	
7.	Drill machine hand 0 to 6 mm capacity		2 nos.	
8.	Electric drill machine portable 6 mm capacity		1 no.	
9.	Pillar electric drill machine 12 mm capacity		1no.	
10.	Allen key		1 set	
11.	Oil can 0.12 litre		2 nos.	
12.	Grease gun		1 no.	
13.	Outside micrometer 0 to 25 mm		1 no.	
14.	Bench grinder motorised		1 no.	
15.	Rawl plug tool and bit		2 set.	
16.	Pullypuller		1 no.	
17.	Multi meter 0 to 1000 M Ohms 2.5 to 5000 volt		1 no.	
18.	Ammeter 1 MA to 500 MA.		1 no.	
19.	Ammeter 0 to 1 amp. D.C.		1 no.	
20.	K.W. meter 0 to 1 K.W. capacity with C.T. 1 : 2		1 no.	
21.	Single phase power factor meter		1 no.	
22.	Frequency meter		1 no.	
23.	Tong tester (Clipon meter)		1 no.	
24.	Mill Voltmeter centre zero 100-0-100 m volt		1 no.	
25.	Spring balance 0 to 15 kg. and 0 to 2.5 kg.		2 set	
26.	Stop watch		1 no.	
27.	Techno-meter or revolution counter with stop watch		1 no.	
28..	Scissors blade 150 mm		4 no.	
29..	Crimping tool		1 set.	
30.	Screw driver 100 mm		4 no.	
31.	Chisel cold flat 12 mm		4 no.	
32.	Mallet hard wood 0.50 kg.		4 no.	
33..	Hammer exetor type 0.40 kg. with handle		3 no.	
34.	Hacksaw frame 200 mm, 300 mm adjustable		4 (2 each)	
35.	Square try 150 mm blade		4 no.	
36.	Divider 150 mm, outside & inside calliper		3 (each)	
37.	Plier flat nose 100 mm		4 nos.	
38.	Plier Gas round nose 100 mm		4 nos.	
39.	Plier Gas 150 mm		4 nos.	
40.	Tweezer 100 mm		4 nos.	

Sl. No.	Name of the Tools, Equipment & Machinery as per syllabus	Rate	Quantity	Total amount
41.	Snip straight 150 mm		2 nos.	
42.	Snip bent 150 mm		2 nos.	
43.	Spanner D.E.W/W standard set		2 nos.	
44.	Drill hand brace 0 to 100 mm		4 nos.	
45.	Drill S.S. Twist block 3 mm, 5 mm, 6 mm set of 3		4 nos.	
46.	Plane, smoothing cutters, 50 mm		4 nos.	
47.	Gauge, wire imperial		2 nos.	
48.	File flat 200 mm 2 nd cut		3 nos.	
49.	File half round 200 mm 2 nd cut		4 nos.	
50.	File half round 200 mm smooth		4 nos.	
51.	File round 200 mm 2 nd cut		4 nos.	
52.	File round 100 mm 2 nd cut		4 nos.	
53.	File flat 150 rough		4 nos.	
54.	File flat 250 mm smooth		4 nos.	
55.	File flat 250 mm rough		4 nos.	
56.	File flat 250 mm bastard		4 nos.	
57.	Rasp, half round 200 bastard		4 nos.	
58.	Iron, soldering 225 grams 125 watt		4 nos.	
59.	Vice hand 50 mm jaw		1 no.	
60.	Stock and dies conduit		1 no.	
61.	Ammeter M.C. 0-25 A.D.C.		1 no.	
62.	Ammeter M.C. 0-5 A.D.C.		1 no.	
63.	D.C. energy meter 220 V 5A W/H or A/H type		1 no.	
64.	A.C. voltmeter M.I. 0-500 V		1 no.	
65.	A.C. Ammeter M.I. 0-25 A		1 no.	
66.	A.C. Ammeter M.I. 0-5 A		1 no.	
67.	A.C. Energy meter (single phase 5 amp. 230 V)		1 no.	
68.	Megger 500 volts		1 no.	
69.	Wheat stone bridge complete with galvanometer and battery		1 no.	
70.	Fan D.C. 220 volt 1200 mm		2 nos.	
71.	Bath impregnating		1 no.	
72.	Oven stoving		2 nos.	
73.	Vice, table jaw 100 mm		3 nos.	
74.	Bench working 2.5 x 1.20 x 0.75 meters		4 nos.	
75.	Fire extinguisher		2 nos.	
76.	Fire buckets		4 nos.	
77.	Metal rack 180 x 150 x 45 cm		4 nos.	
78.	Wire stripper 20 cm		1 no.	
79.	Copper bit soldering iron 0.25 kg.		4 nos.	
Sl. No.	Name of the Tools, Equipment & Machinery as per syllabus	Rate	Quantity	Total amount

80.	Domestic appliances : Electric hot plate 1500 watt. 220 V with temperature control		2 nos.	
	(b) Electric kettle, 1000 watts, 230 V		2 nos.	
	I Electric iron 1200 watts, 230 V with temperature control.		2 nos.	
	(d) Immersion heater 750/1000/1500 W-230 V		2 nos. 2 nos.	
	(e) Geyser 25 litre 240 V (Storage type)			
	(f) B.A. taps and dies 0-2-4-6-8 sizes		1 set	
81.	Spring balance 0-1 kg.		1 no.	
82.	Laboratory type induction coil 6 volt to 800-10,000 volt.		1 no.	
83.	Series type Ohm meter 0-2000 approximate		1 no.	
84.	Shunt type Ohm meter 0-25 approximate		1 no.	
85.	3-point D.C. starters		1 no.	
86.	4-point D.C. starters		1 no.	
87.	Pipe cutter to cut pipes upto 5 cm dia		4 nos.	
88.	Pipe cutter to cut pipes upto 5 cm dia		1 no.	
89.	Cut out, reverse current, over load voltage relays		1 each	
90.	Stock and die set for 20 mm to 50 mm G.I. pipe			
91.	Starters for 3-phase, 400 V, 50 cycles, 2 to 5 H.P. A.C. motors			
	(a) Auto transformer type starter		1 no.	
	(b) Star delta starter with manual, Semi-auto & Automatic		1 no.	
	(c) Direct on line starter		1 no.	
92.	Motor A.C. series type 230 V, 50 cycles, 1/4 HP with starter and switch		1 no.	
93.	Electrical machine trainer Suitable for demonstrating the construction and functioning of different types of DC machines and AC machines (single phase and three phase). Should be complete with friction brake dynamo meter, instrument panel and power supply units.		1 per institute	
94.	Scientific Calculator		2 nos.	
95.	Multi meter		2 nos. (large size)	
	Name of the Tools, Equipment & Machinery as per syllabus	Rate	Quantity	Total amount

96.	Motor generator set consisting of : Motor induction squirrel cage, 7 HP 400 volts, 50-cycles, 3-phase with star delta starter and switch directly coupled to DC shunt generator 5 KW 440 volts, and switch board mounted with regulator, air circuit breaker, ammeter, voltmeter knife blade switches and fuses, set complete with case iron and plate, fixing bolts, foundation bolts and flexible coupling.		1 no.	
97.	Motor generator set consisting of : Motor shunt 5 HP, 440 Volts with starting compensator and switch directly coupled to generator AC, 3.5 KVA, 400/230 volts, 3-phase, 4 wire, 0.3 PF 50 cycles with exciter and 1 switch board mounted with regulator, circuit breaker, ammeter, voltmeter frequency meter, knife blade switch and fuses etc. Set complete with cast iron bed plate, fixing bolts, foundation bolts, & flexible coupling.		1 no.	
98.	Motor series DC, 220 volt, 0.5 to 2 HP, 0.5 to 2 HP.		1 no.	
99.	Motor shunt DC 220 volt, 2 to 3 HP		2 nos.	
100.	Motor of AC squirrel cage, 3-phase, 400 volt, 50 cycles, 2 to 3 HP with star delta starter & triple pole iron clad switch fuse.		1 no.	
101.	Motor AC phase-wound slip ring type 5 HP 400 volts, 3-phase, 50 cycles with starter and switch.		1 no.	
102.	Motor DC compound-wound, 220 volt 2 to 3 HP with starter & switch		2 nos.	
103.	Motor AC single phase, 230 volt, 1 HP repulsion type complete with starter and switch.		1 no.	
104.	Motor AC single phase 230 volt, 50 cycles series type with starter /switch 1 HP.		1 no.	
105.	Motor AC single phase 230 volt, 50 cycles capacitor type with starter switch 1 HP		1 no.	
106.	Motor universal 230 volt, 50 cycles with starter/switch 1 HP		1 no.	
107.	Transformer single phase, 3 KVA, 230/115 volts, 50 cycles core type, air cooled with tapings for scd. Connection		2 nos.	
108.	Motor series DC, 220 volt, 0.5 to 2 HP, 0.5 to 2 HP.		1 no.	
109.	Motor shunt DC 220 volt, 2 to 3 HP		1 no.	
110.	Motor of AC squirrel cage, 3-phase, 400 volt, 50 cycles, 2 to 3 HP with star delta starter & triple pole iron clad switch fuse.		2 nos.	
Sl. No.	Name of the Tools, Equipment & Machinery as per syllabus	Rate	Quantity	Total amount

111.	Motor AC phase-wound slip ring type 5 HP 400 volts, 3-phase, 50 cycles with starter and switch.		1 no.	
112.	Motor DC compound-wound, 220 volt 2 to 3 HP with starter & switch		1 no.	
113.	Motor AC single phase, 230 volt, 1 HP repulsion type complete with starter and switch.		1 no.	
114.	Motor AC single phase 230 volt, 50 cycles series type with starter /switch 1 HP.		1 no.	
115.	Motor AC single phase 230 volt, 50 cycles capacitor type with starter switch 1 HP		1 no.	
116.	Motor universal 230 volt, 50 cycles with starter/switch 1 HP		1 no.	
117.	Transformer single phase, 3 KVA, 230/115 volts, 50 cycles core type, air cooled with tapings for scd. Connection		3 nos.	
119.	Transformer three phase, 5 KVA 400/230 volts, 50 cycles, delta and star, shell type oil cooled		2 nos.	
120.	Current transformer		2 nos.	
121.	Potential transformer		2 nos.	
122.	Used DC generators-series, shunt and compound type for overhauling practice		1 each	
123.	D.C. shunt generator, 2.5 KW, 220 V with control panel		1 no.	
124.	D.C. compound generator, 2.5 KW 250 V with control panel including field rheostat, voltmeter, ammeter and circuit breaker.		1 no.	
125.	Variable auto transformer 0-250 V, 5 amps		2 nos.	
126.	Oscilloscope		1 no.	
127.	Function Generator		1 no.	
128.	Oil testing Kit		1 no.	
129.	Flux meter		1 no.	
130.	Stepper motor		1 no.	
131.	Earth leakage ckt. Breaker		1 no.	
132.	Desoldering gun		4 nos.	
133.	A.C.B. 5 KVA		1 no.	
134.	O.C.B. 5 KVA		1 no.	
135.	M.C.B. 5 KVA		1 no.	
136.	V.C.B. 5 KVA		1 no.	
137.	Thyrister drive 1 H.P. with techogenerator		1 no.	
138.	Voltage Stabilizer manual and automatic		1 no. each	
139.	Diesel generator, 5 KVA, with change over switch, current circuit breaker, water cooled with armature, star-delta connections.		1 no.	