

GOVT. I.T.I. BARBIL

FORMAT FOR REQUISITION OF RAW-MATERIALS/TOOLS & EQUIPMENTS/ STATIONARY MATERIALS/ SPORTS MATERIALS & OTHER ITEMS

To

The Principal,
I.T.I., Barbil.

Sub:

Tool & Equipment for Trade as per syllabus

Sir,

This is to request to kindly procure/ repair the following materials / items as mentioned below for my Section/ Trade MMTM which are essentially required for the training practice / Administrative Office work.

SL NO.	NAME OF ITEMS	SPECIFICATION IF ANY	QTY./No. REQUIRED	REASON	Approx. Cost per Unit	IF AVAILABLE IN STORE, QTY. AVAILABLE
1	Tap and die set	M6, M8, M10, M12, M16, M20 & M25 with necessary tap wrench and die holder.	Each	as per syllabus	1500	
2	Chain pipe wrench	650	1	as per syllabus	500	
3	Telescopic gauges	13 mm to 300 mm.	1	as per syllabus	2500	
4	Linear Actuator (Differential and non-differential)		1	as per syllabus	5000	
5	Cut section model of Pneumatic valves		1	as per syllabus	100000	
6	Flow Detector		1	as per syllabus	5000	
7	Magnetic crack detector		1	as per syllabus	25000	
8	Engineers Stethoscope		1	as per syllabus	25000	
9	Tool picker	collate type	1	as per syllabus	5000	
10	Tool picker	magnetic type	1	as per syllabus	10000	
11	Magnifying Glass	75 mm	1	as per syllabus	200	
12	Pin spanner set		1	as per syllabus	2500	
13	Hand keyway breacher		1	as per syllabus	1000	
14	Bearing and gear tester		1	as per syllabus	5000	
15	Master test bars (Different sizes)		1	as per syllabus	50000	
16	Spirit Level	150 mm, accuracy 0.02 mm / 1000 mm	1	as per syllabus	200	
17	3 Cells Torch		3	as per syllabus	200	
18	Gasket Hollow punches	5, 6, 8, 10, 12, 19, 25 mm dia.	1	as per syllabus	500	
19	Flaring tools		2	as per syllabus	1000	

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20	Hammer (Ball peen, cross peen, straight peen)	500 grms.	4	as per syllabus	2500	
21	Viscometer		1	as per syllabus	5000	
22	Maintenance tool kit	trolley of 1200 x 800 x 1200 mm (L x W x H)	1	as per syllabus	10000	
23	Steel cupboard	180 cm x 60 cm x 45 cm	6	as per syllabus	50000	
24	Workbench	240 cm x 120 cm x 75 cm (Each bench fitted with 4 vices)	5	as per syllabus	100000	
25	Bench Vice	100 mm jaw	14	as per syllabus	15000	
26	Letter punch	5 mm set	1	as per syllabus	400	
27	Number punch	5mm set	1	as per syllabus	400	
28	Deep cutting hacksaw frame	300 mm	1	as per syllabus	250	
29	Bearing puller		1	as per syllabus	500	
30	Bolts, nuts & studs & washer	M6-M20	5	as per syllabus	500	
31	Prussian Blue		2	as per syllabus	50	
32	Adhesives	1) Lock tight 2) Araldite	5	as per syllabus	250	
33	Cirelip external & internal	bore size (20-40mm)	2	as per syllabus	1000	
34	Lubricants oil	servo grade	1 barrel	as per syllabus	40000	
35	Hydraulic fluid		1 barrel	as per syllabus	40000	
36	Vernier caliper	200 mm with Inside and depth measurements	3	as per syllabus	20000	
37	Optical Bevel protractor		1	as per syllabus	5000	
38	Outside micrometer	50 to 75 mm	1	as per syllabus	5000	
39	Slip Gauge Box (workshop grade) - 87 pieces per set		1	as per syllabus	5000	
40	Dial test indicator –stand)	Plunger type-Range 0-10 mm , Graduation 0.01 mm & 0.001mm Reading 0-10 with revolution counter (complete with clamping devices and magnetic Range 0-10 mm , Graduation 0.01 mm & 0.001 mm. Reading 0-10 with revolution counter (complete with clamping devices and magnetic stand)	1	as per syllabus	5000	
41	Dial test indicator – Puppitast type-		1 each	as per syllabus	5000	
42	Center gauge	55° x 47½°	1	as per syllabus	300	
43	Plug gauge	Morse taper No.1, 2, 3, 4,	1	as per syllabus	5000	
44	Ring gauge	Morse taper No.1, 2, 3, 4,	1	as per syllabus	5000	

45	Bore gauge	dial indicator (1 mm range, 0-0.01 mm graduation)-Range of bore gauge 18-150 mm)	1	as per syllabus	5000	
46	Straight edge	Min 500mm- Max 1000mm	1	as per syllabus	5000	
47	Bearing fitting tool		1	as per syllabus	1000	
48	Multimeter		3	as per syllabus	500	
49	Megger		1	as per syllabus	500	
50	Crimping Tool		1	as per syllabus	250	
51	Carbide tip mechanically fastened tool set		1	as per syllabus	15000	
52	Side and face cutter	O 80 x 10 X O 27 mm	1	as per syllabus	500	
53	Slitting Saw cutter	O 100 x 6 X O 27 mm	1	as per syllabus	500	
54	Slitting Saw cutter	O 75 x 3 X O 27 mm	1	as per syllabus	500	
55	'T' slot cutter with parallel shank-	O 17.5 x 8 mm width x dia. of shank 8 mm	1	as per syllabus	500	
56	Angle plate-adjustable	250x250x300 mm	1	as per syllabus	250	
57	Twist Drill	Parallel Shank O 4 mm to O 12 mm in steps of 0.5 mm	1	as per syllabus	1000	
58	Hand reamer	6 to 16 mm in steps of 1 mm	1	as per syllabus	1000	
59	Machine reamer	6 to 16 in steps of 1 mm	1	as per syllabus	1000	
60	Drilling machine	Pillar type 20mm capacity	1	as per syllabus	50000	
61	Pipe bending machine	Manual/ Hydraulic	1	as per syllabus	50000	
62	Hydraulic trainer with necessary elements for different machine circuit with all types of transparent valves and pressure gauge, reservoir etc.	FESTO	1	as per syllabus	500000	
63	Pneumatic trainer with necessary elements for demonstration different machine circuit with all types of valves, pressure gauge and compressor etc.	FESTO	1	as per syllabus	500000	
64	Muffle Furnace (Electric)	Capacity 20kgs.	1	as per syllabus	150000	
65	Multimedia based simulator for CNC technology and interactive CNC part programming software for turning & milling with virtual machine operation and simulation using popular operation control system such as Fanuc, Siemens, etc. (Web-based or licensed based) (12 trainees + 1 faculty) With help of this software the trainees should be able to Write, Edit, Verify & Simulate	Software	13	as per syllabus	100000	

66	Desktop Computers compatible to run simulation software with LAN facility	Machine	13	as per syllabus	520000	
67	Old Centrifugal Pump		1	as per syllabus	5000	
68	Old Gear pump		1	as per syllabus	2000	
69	Old Vane pump fixed and variable delivery		1	as per syllabus	2000	
70	Old Piston pump (Radial & Axial)		1	as per syllabus	2000	
71	Old Reciprocating Compressor		1	as per syllabus	20000	
72	Oxy-acetylene welding Cylinder Trolley		1	as per syllabus	5000	
73	Welding hose P.V.C. flexible	Internal dia. 6 mm (Blue and red)	5	as per syllabus	1000	
74	Hose coupling Nipples		2	as per syllabus	500	
75	Hose Protractor		2	as per syllabus	250	
76	Double stage Pressure regulator for Oxygen and Acetylene		1 each	as per syllabus	5000	
77	High Pressure blow pipe with tips		1	as per syllabus	500	
78	Gas cutting torch with cutting tips		1	as per syllabus	5000	
79	Welding gloves pair (Leather)		1	as per syllabus	500	
80	Goggles	(4A) for Gas. Welding	4	as per syllabus	500	
81	Spark lighter		2	as per syllabus	100	
82	Spindle key		1	as per syllabus	500	
83	Gas Welding table with fire bricks.		1	as per syllabus	1000	
84	Welding Machine DC or AC,	(Single phase / 3 phase), 150 – 300 Amps capacity with all accessories	1	as per syllabus	50000	
85	Gas cylinder (Acetylene & Oxygen)		2 pair	as per syllabus	5000	
86	Foundation bolts (different types)		1	as per syllabus	2500	
87	Square Box Wrenches		1	as per syllabus	1500	
88	Square T Wrenches		1	as per syllabus	500	
89	Threaded Fastener B Type		1	as per syllabus	500	
90	Threaded Fastener C Type		1	as per syllabus	500	
91	Threaded Fastener F Type		1	as per syllabus	500	

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92	Hoisting Equipment: chain pulley, steel slings, rope, belt, tackles	1	as per syllabus	25000	
93	Slings	2	as per syllabus	500	
94	Hydraulic trolley	1	as per syllabus	25000	
95	Screw jack	2	as per syllabus	5000	
96	Hydraulic jack	2	as per syllabus	5000	

Rs 2703600/-

The above expenditure may be met out of STRIVE Scheme

Rathkanda Panda

Sign of Requisitioning Officer

29.7.20

Sign of Training Officer

[Signature]

Signature of ASK

[Signature]

Signature of Section Officer

[Signature]
ARYA IRON & STEEL CO.
BARBIL

[Signature]

Chairman
IMC SOCIETY
I.T.I., BARBIL

[Signature]

Principal
Industrial Training Institute.

Principal
Industrial Training Institute
Barbil, Keonjhar

FORMAT FOR REQUISITION OF RAW-MATERIALS/TOOLS & EQUIPMENTS/ STATIONARY MATERIALS/ SPORTS MATERIALS & OTHER ITEMS

To

The Principal,
I.T.I., Barbil.

Sub: Tools & Equipments for Trade as per syllabus

Sir,

This is to request to kindly procure/ repair the following materials / items as mentioned below for my Section/ Trade TURNER which are essentially required for the training practice / Administrative Office work.

SL NO.	NAME OF ITEMS	SPECIFICATION IF ANY	QTY./No. REQUIRED	REASON	Approx. Cost per Unit	Total Cost
1	Grinding Wheel	Wheel Ø 150mm,Hole Ø 25.4mm,thickness 25.4mm	02 Nos.	As per syllabus	6000	6000
2	Machine Vice for Drilling M/C	Size in inch=3,Depth of jaw mm=35,Height overall in mm=70,Length in mm=265	01 No	As per syllabus	1100	1100
3	Feed Handle for Drilling M/C	No	01 No	As per syllabus	1300	1300
4	Hydraulic feed system of power saw m/c	400mm, blade size, motor capacity-0.75kw	01 No	As per syllabus	95000	95000
5	Bench Vice	125mm jaw	06 Nos.	As per syllabus	1625/piece	9750
6	Height gauge	250mm arm	02 Nos.	As per syllabus	42821/piece	85642
7	Vernier caliper outside,inside and depth	200mm/8 inches with metric& inch scale(I.c=0.02mm) with NABL Accredited lab,certificate	06 Nos.	As per syllabus	10000/piece	60000

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8	Caliper outside spring joint	150mm	25 Nos.	As per syllabus	1845/piece	46125
9	Caliper in side spring joint	150mm	24 Nos.	As per syllabus	1364/piece	32736
10	Caliper odd-leg firm joint	150mm	31 Nos.	As per syllabus	1570/piece	48670
11	Steel rule	150mm	23 Nos.	As per syllabus	406/piece	9338
12	Scriber	150mm×3mm	30 Nos.	As per syllabus	300/piece	9000
13	Hammer ball peen	250gm with handle	38 Nos.	As per syllabus	200/piece	7600
14	Prick punch	100mm	41 Nos.	As per syllabus	400/piece	16400
15	Hammer copper/brass	500 gm with handle	12 nos.	As per syllabus	400	4800
16	Hacksaw fixed	200 mm (Pistol grip)	6 nos.	As per syllabus	80	1600
17	File flat	300 mm rough	6 nos.	As per syllabus	70	420
18	File flat	250 mm 2nd cut	6 nos.	As per syllabus	80	480
19	File flat	250 mm smooth	6 nos.	As per syllabus	80	480
20	File half round	250 mm 2nd cut	6 nos.	As per syllabus	80	480
21	File round	250 mm smooth	6 nos	As per syllabus	80	480
22	File half round	150 mm smooth	2 Sets	As per syllabus	80	480
23	Knurling tool revolving head	(Rough, med, fine) diamond and straight	2 Sets	As per syllabus	300	600
24	Combination set	300 mm (Complete Set)	6 Nos.	As per syllabus	500	3000
25	Screw Driver	10 X 200 mm	1 set	As per syllabus	170	170
26	Spanner double ended	6 mm to 21 mm	2 Nos	As per	280	600

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				syllabus		
27	Pliers flat nose	150 mm side cutting	15 nos.	As per syllabus	100	1500
28	Caliper transfer inside	150 mm	3 nos.	As per syllabus	2000	6000
29	Micrometer Outside	0 to 25 mm, Least Count 0.01 mm with NABL Accredited lab. Certificate	2 sets	As per syllabus	9000	18000
30	Micrometer Outside	25 to 50 mm, Least Count 0.01 mm with NABL Accredited lab. Certificate	2 nos.	As per syllabus	8000	16000
31	Micrometer Outside	50 to 75 mm, Least Count 0.01 mm with NABL Accredited lab. Certificate	2 sets	As per syllabus	8000	16000
32	Micrometer Inside	up to 25 mm, Least Count 0.01 mm with NABL Accredited lab. Certificate	2 nos.	As per syllabus	6000	12000
33	Micrometer Inside	up to 25 to 50 mm, Least Count 0.01 mm with NABL Accredited lab. Certificate	2 nos.	As per syllabus	7000	14000
34	Depth Gauge Micrometer	0 to 150 mm, Least Count 0.01 mm with NABL Accredited lab. Certificate	2 nos.	As per syllabus	5000	10000
35	Vernier Caliper Outside, Inside and Depth	200 mm / 8 inches with metric & inch scale (L.C. = 0.02mm) with NABL Accredited lab. Certificate	6 nos.	As per syllabus	9000	54000
36	Dial Vernier Caliper with metric	200 mm, Least Count 0.05 mm with NABL Accredited lab. Certificate	6 nos.	As per syllabus	9000	54000
37	Vernier Bevel Protractor	300 mm blade with NABL Accredited lab. Certificate	6 nos.	As per syllabus	8000	48000
38	Vernier Micrometer	0 - 25 mm o/s LC 0.001mm with NABL Accredited lab. Certificate	2 nos.	As per syllabus	8000	16000
39	Vernier Micrometer	25 - 50 mm, outside Least Count 0.001mm with NABL Accredited lab. Certificate	2 sets	As per syllabus	8000	16000
40	Vernier Micrometer	0 inch to 1 inch. Outside Least Count 0.001 inch with NABL Accredited lab. Certificate	2 nos.	As per syllabus	5000	10000
41	Gauge Feeler	Thickness - 0.05 mm to 0.3 mm by 0.05 and 0.4 mm to 1 mm by 0.1 mm - 13 leaves	1 each	As per syllabus	1500	1500
42	Gauge - Radius Set	1 mm to 25 mm by 0.5 mm	6 Nos	As per syllabus	1600	6400
43	Centre Gauge	com. 60°, 55° and 29°	2 sets	As per	1600	3200

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				syllabus		
44	Screw Pitch Gauge	Whitworth & Metric each (0.25 to 6mm)	2 sets	As per syllabus	1200	2400
45	Drill Angle Gauge		2 sets	As per syllabus	800	1600
46	Chisel cold flat	20 x 150 mm	6 nos.	As per syllabus	120	7200
47	Divider spring joint	150mm	13	As per syllabus	150/piece	1950
48	Try Square	150 blade	4 nos.	As per syllabus	60	240
49	Magnifying Glass	75 mm with magnifying factor 10X	4 nos.	As per syllabus	140	560
50	Plain Ring and Plug Gauge	(12,16,20,25,30,32,36,40,45,50 mm)	1 set each	As per syllabus	500	500
51	Wheel Dresser Huntingon-type with star cutter		1 No.	As per syllabus	955	955
52	Wheel Dresser Diamond	(inserted-0.75 or 1 Carat)	2 Nos.	As per syllabus	955	2000
53	Screw Thread micrometer interchangeable	(0-25 mm)	1 No	As per syllabus	25440	25440
54	Morse Taper Plug & Ring Gauge	No. 0 to 7 MT	1 set	As per syllabus	10000	10000
55	Sine Bar with centers	200 mm	2 Nos.	As per syllabus	4956	8956
56	Slip Gauge metric set	(87 pieces in a Box) with workshop grade	2 Nos.	As per syllabus	43660	86660
57	Morse Taper	Sleeves No. 0-1, 1-2, 2-3, 3-4, 4-5.	1 set	As per syllabus	32000	32000
58	Drill Chuck	12 mm cap with key	2 Sets.	As per syllabus	8106	16069
59	Reamer machine	straight flute 6 to 25 mm	1 Set.	As per syllabus	5600	5600
60	Reamer Adjustable	10 to 20 mm	1 set.	As per syllabus	5600	5600
61	Tool Bits	12 X 150 mm sq. assorted shaped	15 Nos.	As per	600	9000

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				syllabus		
62	Boring Tool holder	6 mm sq. tool bit	15 Nos.	As per syllabus	500	7500
63	Steel Rule	300 mm with Metric and Inch	15 Nos.	As per syllabus	29	4590
64	Oil Can	½ pint (pressure feed system)	06 Nos.	As per syllabus	177	1062
65	Dog Carrier	25, 50 and 75 mm	12 Nos	As per syllabus	6000	72000
66	Angle Plate	Adjustable - 150 X 175 X 250 mm	02 Nos.	As per syllabus	15977	31000
67	Spirit Level	0.05 mm / 200 mm	2 Nos.	As per syllabus	12000	24000
68	Combination Drill / Centre Drill	A3, A4 & A5	1 set	As per syllabus	12720	12720

Grand Total Amount Rs 1114453/-

The above expenditure may be met out of STRIVE scheme

Brayachan Hembran
Sign of Requisitioning Officer

[Signature]
30-7-20
Sign of Training Officer

[Signature]
Signature of ASK

[Signature]
Signature of Section Officer



[Signature]
Chairman
IMC SOCIETY
I.T.I., BARBIL

[Signature]
Principal
Industrial Training Institute,
Principal
Industrial Training Institute
Barbil, Keonjhar

GOVT. I.T.I. BARBIL

FORMAT FOR REQUISITION OF RAW-MATERIALS/TOOLS & EQUIPMENTS/STATIONARY MATERIALS/ SPORTS MATERIALS & OTHER ITEMS

To

The Principal,
I.T.I., Barbil

Sub:

Requirement of tool & equipment's / raw-material.

Sir,

This is to request to kindly procure/ repair the following materials / items as mentioned below for my Section/ Trade MR&AC which are essentially required for the training practice / Administrative Office work.

SL NO.	NAME OF TRADE	SPECIFICATION IF ANY	QTY./No. REQUIRED	REASON	Approx. Cost per Unit	Total cost
1	File, half round, fine double cut	Length 150mm	12 non	as per syllabus	300	3600
2	File, round, fine double cut	Length 150mm	12nos	as per syllabus	300	3600
3	File flat, fine double cut	Length 150mm	12nos	as per syllabus	300	3600
4	File square, fine double cut	Length 150mm	12nos	as per syllabus	300	3600
5	File triangular fine double cut	Length 150mm	12nos	as per syllabus	300	3600
6	Scriber	150mm length	12nos	as per syllabus	245	2940
7	Divider spring joint	Length 150mm	12nos	as per syllabus	200	2400
8	Calliper spring joint in side	Length 150mm	12nos	as per syllabus	200	2400
9	Calliper, odd leg spring joint	Length 150mm	12nos	as per syllabus	200	2400
10	Hammer ball pane	200 grams	03nos	as per syllabus	200	600
11	Cold chisel flat and cross cut	Length 150mm	12nos	as per syllabus	110	1320
12	Pliers flat nose	200mm	12nos	as per syllabus	250	3000
13	Tweezers	10 cm	12nos	as per syllabus	200	2400
14	Flaring tool set	4.7 mm to 16 mm OD	04nos	as per syllabus	900	3600
15	Quick couples, process tube adopter	1/4" and 3/8"	04nos each	as per syllabus	600	2400
16	Hollo punch hole for cutting	4.7 to 16mm die	04 set	as per syllabus	1600	6400
17	Puller 3 legged with flexible arm	300mm	10nos	as per syllabus	390	3900
18	Torque wrench	300mm to 12.7 mm	04nos	as per syllabus	3900	15000

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07/08/2020

	Four-way reversible valve		04nos	as per syllabus	260	1040
20	Piercing valve	1/4 inch	4nos	as per syllabus	1680	6720
21	Electronic leak detector		08nos	as per syllabus	2800	22400
22	Digital weighing machine	100 kg	1no	as per syllabus	12000	12000
23	Core drill machine		2nos	as per syllabus	23000	46000
24	Decibel meter	30 – 100 db.	2nos	as per syllabus	2200	4,400
25	BLDC motor with controller	15 – 30 watts ,315-volt DC	2nos	as per syllabus	2500	5,000
26	IDU pulse generation type motor	15 watt ,230volt A.C	2nos	as per syllabus	3000	6000
27	Refrigerant cylinder	10 kg capacity	2nos	as per syllabus	1500	3000
28	Gauge manifold with gauges	Different size of hoses for R 134a, R22 , and R410	3nos each	as per syllabus	1600	4,800
29	Display cabinet	2-ton capacity	1no	as per syllabus	34000	34000
30	Water dispenser bubble type (hot and cold)	2.5 to 3ltr Delivery capacity per hour	1no	as per syllabus	30000	30000
31	Bus A.C tutorial model		1set	as per syllabus	35000	35000
32	Automatic ice cube m/c	50 kg /hour	1no	as per syllabus	45000	45000
33	Storage type water cooler (hot and cold)	bore size (20-40mm)	1no	as per syllabus	34000	34000
34	Visi cooler	185 L	1 no	as per syllabus	35000	35000
35	Split A/C (inverter technology)	1.5 TR	2nos	as per syllabus	37000	74000
36	Walk in cooler PUFIinsulated for cold room 6	Temperature 00 -50 c	1 complete set	as per syllabus	95000	95000
37	Absorption system	Small size	1no	as per syllabus	70000	70000
38	VRF / VRV unit with two indoor units 2.5TR each and 5TR capacity out door unit complete with air cooled condenser.		1no	as per syllabus	70000	70000

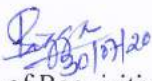
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39	Glass board portable		2nos	As per syllabus	2700	5,400
40	Chart stand-		1 no	as per syllabus	1500	1,500
41	Computer with printer and scanner	Latest configuration	1no	as per syllabus	78000	78,000
42	LCD PROJECTOR /LED/LCD	Big size	1no	as per syllabus	38000	38,000
43	Laptop	Latest version	1no	as per syllabus	67000	67,000
44	UPS	2 KVA	1no	as per syllabus	16000	16,000
45	Copier machine		1no	as per syllabus	38000	38000
46	Interactive board	Latest version	1no	as per syllabus	26000	26,000
47	Stool		24nos	as per syllabus	1800	43,200
48	Book self with glass panel		1no	as per syllabus	20000	20,000
49	Storage rack		2nos	as per syllabus	15000	30,000
50	Storage shelf		2nos	as per syllabus	15000	30,000
51	Copper tube	3/8-20"	2nos	As per syllabus	4000	8000
52	Copper tube	1/4-20"	2nos	As per syllabus	4000	8000
53	Copper tube	3/4-20"	2nos	As per syllabus	4000	8000
54	Old reciprocating compressor		2	As per syllabus	1500	3000
55	Old centrifugal pump		1		2000	2000
56	Oxy acetylene welding cylinder trolley		1	As per syllabus	3500	3500
57	Welding gloves		2nos	As per syllabus	200	400
58	Goggles		2nos	As per syllabus	1000	2000
60	Pipe connector(pvc)	15*25	20 nos	As per syllabus	60	1200
61	Refrigerant	R-22	10kg	As per syllabus	700	7000

Page 02/08/2020

Oil paint	Grey and blue 500ml	Each 2 nos		300	1200
				GRAND TOTAL	11,33,920.00

The above expenditure may be met out of STRIVE scheme


Sign of Requisitioning Officer


30.7.20
Sign of Training Officer


Signature of ASK


5.5.20
Signature of Section Officer




Chairman
IMC SOCIETY
I.T.I., BARBIL


Principal
Industrial Training Institute,
Principal
Industrial Training Institute
Barbil, Keonjhar

GOVT. I.T.I. BARBIL

FORMAT FOR REQUISITION OF RAW-MATERIALS/TOOLS & EQUIPMENTS/ STATIONARY MATERIALS/ SPORTS MATERIALS & OTHER ITEMS

To

The Principal,
I.T.I., Barbil.

Sub:

Tool & Equipment for Trade as per syllabus

Sir,

This is to request to kindly procure/ repair the following materials / items as mentioned below for my Section/ Trade MACHINIST which are essentially required for the training practice / Administrative Office work.

SL NO.	NAME OF ITEMS	SPECIFICATION IF ANY	QTY./No. REQUIRED	REASON	Approx. Cost per Unit	IF AVAILABLE IN STORE, QTY. AVAILABLE	TOTAL COST
1	Hammer	B.P. 0.5 kg	45	as per syllabus	180		\$100
2	File flat bastard	300 mm	20	as per syllabus	250		5000
3	Combination Plier	150 mm	45	as per syllabus	250		11250
4	Scribing block universal	300 mm	1	as per syllabus	1200		1200
5	V- Block	100/7 - 80 - A	1	as per syllabus	800		800
6	Try square	300 mm	1	as per syllabus	120		120
7	Outside spring caliper	200 mm	2	as per syllabus	100		200
8	Divider spring	200 mm	2	as per syllabus	100		200
9	Inside spring caliper	200 mm	2	as per syllabus	100		200
10	Straight edge steel	1 meter	1	as per syllabus	200		200
11	Straight edge steel	500 mm	1	as per syllabus	120		120
12	Steel tape	2 meter in case	1	as per syllabus	120		120
13	Steel rule	60 cm graduated both in English & Metric units	1	as per syllabus	90		90
14	Sprit level	2V 250, 05 meter	1	as per syllabus	400		400
15	Hammer	B.P. 800 gms with handle	4	as per syllabus	360		1440

Prasanna Kuman Patra

16	Screw driver, heavy duty	300 mm with handle	3	as per syllabus	100		300
17	Spindle blade screw driver	100 mm	4	as per syllabus	180		720
18	Allen Hexagonal keys	2.5 to 12	1	as per syllabus	250		250
19	Spanner D.E.	series 2 (set of 7 pieces)	6	as per syllabus	1000		6000
20	Adjustable spanner	300 mm	2	as per syllabus	80		160
21	Reduction sleeve Morse	1-1, 3-1, 4-1, 4-2, 5-1, 5-2, 6-1,	2	as per syllabus	320		640
22	Angle plate size	200 x 100 x 200 mm	1	as per syllabus	1200		1200
23	Solid parallels in pairs	(different sizes) in Metric	12	as per syllabus	700		8400
24	Punch letter set.	3 mm	1	as per syllabus	450		450
25	Punch number set	3 mm	1	as per syllabus	320		320
26	Twist drills	3 mm to 13 mm in step of 0.5 mm (parallel shank)	1	as per syllabus	180		180
27	Drill Chuck	0-13 mm with taper shank	1	as per syllabus	1000		1000
28	Centre drill	A 1 to 5	1	as per syllabus	150		150
29	Clamps C	200 mm	2	as per syllabus	500		1000
30	Drill H.S.S. taper shank	(6 mm to 12 mm in step of 0.5 mm)	1	as per syllabus	220		220
31	Reamer	6 mm to 25 mm by 1 mm	4	as per syllabus	500		2000
32	Reamer adjustable	10 mm to 15 mm length 75 mm	1	as per syllabus	500		500
33	Tool bits	H.S.S. 6 mm square	1	as per syllabus	500		500
34	Tool bits	H.S.S. 10 mm square	1	as per syllabus	500		500
35	Tool bits holder (Armstrong) L.H		1	as per syllabus	500		500
36	Tool bits holder (Armstrong) R.H.		4	as per syllabus	500		2000
37	Assorted tools and bit holders for lathe, shaper, slotter & planner in different shapes and sizes		4	as per syllabus	500		2000
38	Hacksaw frame adjustable	250-300 mm with blades	2	as per syllabus	250		500
39	Table chuck	75 mm jaw swivel base	1	as per syllabus	400		400

Prasanna Kumar Putu

40	Bench vice	100 mm jaw	2	as per syllabus	1000	2000
41	Machine vice	200 mm swivel base	2	as per syllabus	1000	2000
42	Machine Vice	Swivel Base -150 mm	1	as per syllabus	1000	1000
43	Radius turning attachment		1	as per syllabus	10000	10000
44	Compound angle vice (standard sine)		1	as per syllabus	3000	3000
45	Universal Machine Vice	100 mm	1	as per syllabus	800	800
46	Universal Table Angle Plate	150 X 150 X 150 mm	1	as per syllabus	750	750
47	Shaper tool holder turret type to suit the machine		2	as per syllabus	600	1200
48	Base chuck for slotter to suit the machine		1	as per syllabus	900	900
49	Shaper indexing center to suit the machine		1	as per syllabus	650	650
50	Knurling tools	(set of 3) straight and diamond	1	as per syllabus	60	60
51	Plier cutting	200 mm	2	as per syllabus	140	280
52	Carbide tipped tools of different sizes and shapes (throw away tips)		2	as per syllabus	70	140
53	Digital Multimeter	0 to 500 V	2	as per syllabus	365	730
54	Variable Resistance Box	Resistors With 220 Ω , 150 Ω , 1k Ω , 33 Ω , 100 Ω , 1.2 Ω	1	as per syllabus	700	700
55	DC Battery With Cap	9V	1	as per syllabus	1200	1200
56	Dual Power Supply	(230V, 50Hz, Fuse-800mA)	1	as per syllabus	1500	1500
57	Solder Iron	(350V), Solder Lead, PCB Board (Groove Board), Solder Wick	1	as per syllabus	500	500
58	Inductor	(400 Turns, 200 Turns, 600 Turns, 1200 Turns), I-Core, E-Core, U-Core, Laminated Core	1	as per syllabus	1400	1400
59	Relay	(5V), LED (5V)	1	as per syllabus	600	600
60	Function Generator	(230V, 50Hz, Watts-12VA, Fuse-150mA)	1	as per syllabus	200	200
61	Bread Board		1	as per syllabus	800	800
62	Synchronous Motor	(240V, 60rpm), Capacitor For Synchronous Motor (0.8mf $\pm$ 5% 450 VAC)	1	as per syllabus	3000	3000

Prasanna Kumar Pectora

63	Power Supply	(0-30V DC, 3A)	1	as per syllabus	4000	4000
64	Sensor Kit		1		6000	6000
65	Mounting Plate		1	as per syllabus	950	950
66	Power Distribution Box	(24V DC, 4A)	1	as per syllabus	1800	1800
67	Counter Box	(10-30V DC/0.05A)	1	as per syllabus	1200	1200
68	Indication Box	(24V Dc)	1	as per syllabus	2400	2400
69	Material Box		1	as per syllabus	1800	1800
70	Inductive Sensor	(10-30 V DC, PNP, NO, 5mm (Range))	1	as per syllabus	1700	1700
71	Capacitive Sensor	(10-30 V Dc, PNP, NO, 2-8mm(Range))	1	as per syllabus	5000	5000
72	Magnetic Sensor	(10-60 V DC , PNP, NO, 60mm (Range))	1	as per syllabus	7000	7000
73	Ultrasonic Sensor	(20-30 V DC, PNP, NO, 80-300mm(Range))	1	as per syllabus	10000	10000
74	Connecting Wires		1	as per syllabus	4000	4000
75	Motor With Control Unit	(24V DC, 1A)	1	as per syllabus	3000	3000
76	Milling Cutter	Side and face cutter dia 100 X 12 X 27 mm	3	as per syllabus	600	1800
77	Milling Cutter	Side and face cutter dia 160 X 10 X 27 mm	2	as per syllabus	1200	2400
78	Milling Cutter	Side and face cutter dia 160 X 16 X 27 mm	2	as per syllabus	400	800
79	Milling Cutter - Double Angle Unequal	Cutter 50 X 12 X 27 mm bore dia 55°	2	as per syllabus	400	800
80	Milling Cutter - Shell End Mill	Ø 50 x 36 x 27 mm, Preferably Inserted Tip Type	2	as per syllabus	400	800
81	Milling Cutter - Shell End Mill	Ø 75 mm x 50 x 27 mm, Preferably Inserted Tip Type	2	as per syllabus	400	800
82	Milling Cutter - Parallel Shank endmills	Ø 6, Ø 10 and Ø 16 are (double fluted), Ø 20 mm & Ø 25mm (four fluted)	4	as per syllabus	400	1600
83	Milling Cutter - T Slot Cutter with Parallel Shank	Ø 17.5 x 8 mm Width x Diameter of shank 8 mm	1	as per syllabus	600	600
84	Milling Cutter - Disc type form	(involute form - 2 module, 20° pressure angle)	1	as per syllabus	700	700
85	Micrometer outside	25-50 mm Reading 0.01 mm with NABL Accredited lab. Certificate	2	as per syllabus	5000	10000
86	Micrometer outside	50-75 mm Reading 0.01 mm with NABL Accredited lab.	1	as per syllabus	5000	5000

Prasanna Kumar Patan

		Certificate					
87	Micrometer outside	75-100 mm Reading 0.01 mm with NABL Accredited lab. Certificate	1	as per syllabus	5000		5000
88	Micrometer depth gauge	0-200 mm Reading 0.01 mm with NABL Accredited lab. Certificate	1	as per syllabus	5000		5000
89	Vernier Caliper	Depth 200 mm /8 inches with metric & inch scale (L.C. = 0.02mm) with NABL Accredited lab. Certificate	7	as per syllabus	5000		35000
90	Direct reading vernier caliper	0- 300 (direct reading with dial)	1	as per syllabus	10000		10000
91	Vernier gear tooth caliper		1	as per syllabus	5000		5000
92	Vernier bevel protractor	with 150 mm blade	1	as per syllabus	5000		5000
93	Sine Bar	200 mm	1	as per syllabus	6000		6000
94	Limit plug gauges	5 mm to 25 mm by 2.5 mm	1	as per syllabus	1600		1600
95	Gauge Feeler / Thickness	0.05 mm to 0.3 mm by 0.05 and 0.4 mm to 1 mm by 0.1 mm - 13 leaves	1	as per syllabus	1400		1400
96	Planer gauge standard size		1	as per syllabus	1300		1300
97	Magnifying glass	75 mm	2	as per syllabus	100		200
98	Steel chair for Instructor		3	as per syllabus	3000		9000
99	Steel table for Instructor		2	as per syllabus	5000		10000
100	Work bench	2400 x 1200 x 900 mm	1	as per syllabus	15000		15000
101	Steel cup board	180 x 90 x 45 mm	1	as per syllabus	5000		5000
102	Steel cup board	120 x 60 x 45 cm	1	as per syllabus	5000		5000
103	First Aid Box		1	as per syllabus	300		300
104	Silicon carbide grinder for carbide tipped tools		1	as per syllabus	260000		260000
105	a) Simulator b) Desktop Computers	[specification as per Annex-A & A (II)]	1	as per syllabus	50000		50000
106	CNC milling tools	[specification as per Annex-A & A (II)]	1	as per syllabus	5000		5000
107	CNC hole machining tools	[specification as per Annex-A & A (II)]	1	as per syllabus	5000		5000

total= 606690

Prasanna Kumar

The above expenditure may be met out of STRIVE scheme

Prasanna Kumar Patra

Sign of Requisitioning Officer

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Sign of Training Officer

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Signature of ASK

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5.8.20

Signature of Section Officer

[Signature]


Suresh

Chairman
IMC SOCIETY
I.T.I., BARBIL

[Signature]
Principal

Industrial Training Institute,

Barbil

Principal
Industrial Training Institute
Barbil, Keonjhar

GOVT. I.T.I. BARBIL
FORMAT FOR REQUISITION OF RAW-MATERIALS/TOOLS & EQUIPMENTS/STATIONARY
MATERIALS/ SPORTS MATERIALS & OTHER ITEMS

To

The Principal,
I.T.I., Barbil.

Sub:

Tool & Equipment as per syllabus.

Sir,

This is to request to kindly procure/ repair the following materials / items as mentioned below for my Section/ Trade FITTER which are essentially required for the training practice / Administrative work.

SL NO	NAME OF ITEMS	SPECIFICATION IF ANY	QTY/NO REQUIRED	APPROX. COST PER UNIT	Total cost
1	Steel Rule with metric & British graduation	150 mm, Stainless steel	84	37	3108
2	Try Square.	150 mm blade	84	260	21840
3	Caliper inside spring type.	150 mm	84	100	8400
4	Caliper hermaphrodite spring type	150 mm	84	100	8400
5	Caliper outside spring type	150 mm	84	100	8400
6	Divider spring type	150 mm	84	100	8400
7	Scriber	150 mm	84	37	3108
8	Centre Punch	10 mm and Length - 120 mm	84	63	5292
9	Screw driver	150mm insulated flat type	84	75	6300
10	Chisel cold flat	20 mm X 150 mm High carbon steel	84	133	11172
11	Hammer ball peen With handle	450 grams (1 lb)	84	332	27888
12	Hammer ball peen With handle.	220 grams (1/2 lb)	84	245	20580
13	File flat - second cut	250 mm	84	522	43848
14	File flat smooth	250 mm.	84	670	56280
15	File half round second cut	150 mm.	84	650	54600
16	Hacksaw frame fixed type	300 mm	84	200	16800
17	Safety goggles.		84	90	7560
18	Dot punch	100 mm	84	75	6300

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	Steel Rule Graduated both in Metric and English Unit	300 mm Stainless steel			
19			8	80	640
20	Straight edge steel	300 mm or above	4	6346	25384
21	Spirit Level metal Type - 2	300 mm Basic Length Accuracy 0.1mm/Meter	2	472	944
22	Stud Extractor EZY - out	Set of 8	4	1020	4080
23	Combination Set	300 mm	4	13934	55736
24	Micrometer outside.	0 - 25 mm	4	6500	26000
25	Micrometer outside.	25 - 50 mm	4	7664	30656
26	Micrometer outside.	50 - 75 mm	4	10000	40000
27	Micrometer inside with extension rods.	Accuracy 0.01 mm with extension rods upto 150 mm	2	18950	37900
28	Vernier caliper	150 mm	8	6500	52000
29	Vernier height gauges	0 - 300 mm with least count 0.02 mm	2	46300	92600
30	Vernier bevel protractor Blade with Acute Angle Attachment	300 mm	2	33000	66000
31	Screw pitch gauge Metric	0.25 to 6 mm	2	350	700
32	Wire gauge, metric standard.		2	1090	2180
33	Surface plate C.I./Granite with Stand and Cover	600 x 600 mm	2	33850	67700
34	Marking table (Mild steel)	900 x 900 x 900mm	2	10000	20000
35	Universal scribing block.	220 mm	4	2150	8600
36	V-Block pair with clamps	150x100x100mm	4	12200	48800
37	Angle plate	150x150x250mm	4	16720	66880
38	Punch letter set.	3 mm	2	900	1800
39	Punch number set.	3 mm	2	320	640
40	Portable hand drill (Electric)	0 to 13 mm Capacity	2	6350	12700
41	Drill twist straight shank	3 mm to 12 mm by 0.5 mm H.S.S.	4	9200	36800
42	Drill twist Taper shank	8 mm to 20 mm by 0.5 mm H.S.S.	4	44220	176880
43	Taps and dies complete set in box.	Wit-worth	2	18710	37420
44	Taps and dies complete set	5,6,8,10 & 12 mm set of 5	4	5250	21000
45	File knife edge smooth	150 mm	8	500	4000
46	File feather edge smooth	150 mm	8	330	2640
47	File triangular smooth	200 mm	16	400	6400
48	File round second cut	200 mm	16	380	6080
49	File square second cut	250 mm	16	300	4800

29/07/2020

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	Feeler gauge	Gauge Feeler/ Thickness- 0.05 mm to 0.3 mm by 0.05 and 0.4 mm to 1 mm by 0.1 - 13 Leaves			13050
50			2	6525	
51	File triangular second cut.	200	16	700	11200
52	File flat second cut safe edge.	300	16	800	12800
53	File flat bastard	200	20	330	6600
54	File flat bastard.	300	20	500	10000
55	File Swiss type needle	Set of 12, Length = 150 mm	4	4000	16000
56	File half round second cut.	250 mm	20	1100	22000
57	File half round bastard.	250 mm	20	969	19380
58	File round bastard.	250 mm	20	621	12420
59	File flat second cut.	150 mm	16	400	6400
60	File card.	3"x 5" size, brass or steel wire	16	110	1760
61	Oil Can	250 ml	4	250	1000
62	Pliers combination insulated	150 mm	4	390	1560
63	Wooden handle forged Soldering Iron copper bit.	230v, 250 W, 350 gm	4	1430	5720
64	Blow Lamp	0.5 litre	4	2363	9452
65	Spanner- Double Ended	6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22	2	470	940
66	Spanner adjustable	150 mm	4	272	1088
67	Interchangeable ratchet socket set	12 mm driver size 10-32 mm set of 18 socket and attachment	2	6399	12798
68	Double Ended tubular Box spanner set with Tommy bar.	A/F 6-25 mm set of 10 Tommy Bar Dia 6,8,10,12,14,16	2	2076	4152
69	Glass magnifying	75 mm	4	375	1500
70	Clamp toolmaker	5 cm and 7.5 cm set of 2	4	1338	5352
71	Clamp "C"	100 mm	4	634	2536
72	Clamp "C"	200 mm	4	1381	5524
73	Hand Reamer set (Tapar pin straight flute)	NomilDia 6,8,10,12,16 mm	2	20581	41162
74	Machine Reamer parallel (Helical flute)	12-16 mm set of 5	2	14373	28746
75	Scraper flat	150 mm	16	194	3104
76	Scraper triangular	150 mm	16	194	3104
77	Scraper half round	150 mm	16	194	3104

29/07/2020

29/7/20

	old cross cut & diamond point.	9 mm X 150 mm	16	201	3216
79	Chisel cold flat	9 mm X 100 mm	16	66	1056
80	Chisel cold round noze.	9 mm X 100 mm	16	190	3040
81	Drill chuck with key	12 mm.	2	860	1720
82	Pipe wrench	400 mm	2	586	1172
83	Pipe vice	100 mm	2	3140	6280
84	Adjustable pipe die set BSP	cover pipe size 1" or 3/4"	2	2975	5950
85	Wheel dresser (One for 4 units) Star/Dresser with Holder	Length 150 mm, diamond point	2	1012	2024
86	Machine vice - Swivel Base	100 mm	2	21358	42716
87	Machine vice - Swivel Base	125 mm	2	27272	54544
88	Sleeve drill Morse	No. 0 - 1, 1 - 2, 2 - 3, 3 - 4, 4 - 5	2	1873	3746
89	Vice bench	150 mm	40	9175	367000
90	Bench working.	2400 x 1200 x 900 mm	8	70000	560000
91	Almirah.	1800 x 900 x 450 mm	4	8000	32000
92	Lockers with 8 drawers (standard size).	One locker for each trainee	5	10000	50000
93	Metal rack	1820 x 1820 x 450 cm	2	12000	24000
94	Instructor Table		2	2500	5000
95	Instructor Chair		4	1500	6000
96	Black board with easel.		1	8716	8716
97	Fire extinguisher (For 4 Units)	CO2 type, 3 kg capacity	2	9175	18350
98	Fire buckets.		6	703	4218
99	Machine vice.	100mm	4	5251	21004
100	Wing compass.	254 mm or 300 mm	4	408	1632
101	Hand hammer with handle.	1000 gm	2	584	1168
102	Torque wrench (Standard/Ratchet type)	14 to 68 Nm	2	10376	20752
103	Power tools for fastening	Capacity 10-18mm	2	44311	88622
104	Different Profile gauges (Plate type) - For demonstration	Metric standard	8	1000	8000
105	Knurling tool (Diamond, straight & Diagonal)		2	700	1400
106	Indexable boring bar with inserts	1" shank	8	3500	28000
107	Machine maintenance mannual for Lathe, Pedestal grinder, Drill machine, Power saw		2	500	1000
108	Temperature gauge	Range 0 - 150°C	2	500	1000


 29/7/2020


 29/7/2020

109	Dowel pin (straight)	Dia. -1" Length -4" (Mat: Stainless Steel)	2	5523	11046
110	Standard Tap screws	M3, M4, M5, M6, M8, M10, M12, M14, M16	2	120	240
111	Lapping plate	Dia. -6"	4	6810	27240
112	Medium carbon Heat treated alloy steel Metric Studs and bolts along with nuts (for display) of standard length (May be manufactured in-house)	M6, M8, M10, M12, M14, M16 (Standard)	4	3500	14000
113	Caps screws	M6, M8, M10, M12	4	1422	5688
114	Drill gauges	Letter drill gauge (A to Z) , Number drill gauge (1 to 60) , Metric drill gauge (1.5mm to 12.5mm, 30 holes)	4	2156	8624
115	Cast Iron Globe Valve (Flanged type)	150NB, Class# 150 Flange:ANSI125-B16.1	4	700	2800
116	C.I. Sluice / Gate valve (flanged type)	150NB, Class# 150 Flange:ANSI125-B16.1	4	600	2400
117	Stop cock	25NB (2-way, Threaded end)	4	2500	10000
120	Slip-on Forged steel Flange	150NB, ANSI-B16.5, Class#150	8	500	4000
121	Bolt & Nut with washer (May be manufactured in-house)	M20x2.5x90Long (part thread - Hex. Head)	32	70	2240
122	Pipe threading die with handle	Ratchet type Die head of 1/2" , 3/4" and 1"	4	3600	14400
123	Jigs & Fixture (sample)-For demonstration (May be manufactured in-house)		2	10000	20000
124	Pulleys (for V-belt or Flat belt)	to fit on 50mm dia. Shaft with key slot	4	1000	4000
125	Steel keys (May be manufactured in-house)	to fit with keyslot of shaft & pulley	2	50	100
126	Damaged old spur gear	to fit 50mm dia. Shaft	4	200	800
127	V-belt and Flat belt	to fit on pulley	4	2500	10000
128	Packing gasket	PTFE gasket roll small size	2	600	1200

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129	Washer, clutch, keys, jib, cotter & circlip	minimum 25mm size, carbon steel material	4	1000	4000
130	Hollow punch	Straight Shank Hollow Punch Sets 5-12mm	2	830	1660
131	Drill Drift (May be manufactured in-house)	200mm hardened and black finish	4	50	200
132	Bearing different types	each type of diameter 25mm (min.)	2	300	600
133	Lifting sling	8mm Nominal Dia. Single leg sling	4	1000	4000
134	Bearing extractor	Universal gear puller 2 or 3 jaws adjustable	2	1047	2094
135	Pulley extractor	- do -	2	1465	2930
136	Trammel	300 mm	2	1530	3060
137	Pocker.		4	57	228
138	Prick punch	100 mm	4	50	200
139	Mallet.	Dia 100 mm X 150 mm	4	219	876
140	Aviation Snips straight Cut	300 mm	4	1006	4024
141	Flat headed hammers with handle.		4	165	660
142	Planishing hammer.		4	202	808
143	Snip bent Left Cut	250 mm	4	1032	4128
144	Stake hatchet with Leg.	300 X 200 X 20 mm	4	1523	6092
145	Stake grooving.	100 X 100 X 300 mm	4	1650	6600
146	Slip Gauge as Johnson metric set.	87 Pieces Set	1	51228	51228
147	Gauge snap Go and Not Go	25 to 50 mm by 5 mm. Set of 6 pieces	1	5082	5082
148	Gauge plug	Single ended 5 to 55 by 5 mm. Set of 11 pcs.	1	11610	11610
149	Gauge telescopic set.	8 - 150 mm	1	23956	23956
150	Dial test indicator on stand	0.01 mm least count	1	16406	16406
151	Sine bar	125 mm	2	6990	13980
152	Dial vernier caliper. (Universal type)	0 - 300 mm, LC 0.05 mm	2	25322	50644
153	Screw thread micrometer with interchangeable. Pitch anvils for checking metric threads 60.	0 - 25 mm LC 0.01 mm	1	31720	31720

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154	Depth micrometer: 0-25 mm	Accuracy 0.01 mm with standard set of extension rods upto 200 mm	2	15015	30030
155	Digital Vernier caliper.	0 - 150 mm with least count 0.02mm	1	20109	20109
156	Digital Micrometer outside.	0 - 25 mm L.C. 0.001 mm.	1	24506	24506
157	Comparators Gauge - Dial Indication with Stand and Bracket.	LC 0.01mm	1	23919	23919
158	Engineer's try square (knife-edge)	150 mm Blade	2	204	408
159	Surface roughness comparison plates	N1 - N12 Grade	1	12316	12316
160	Digital Vernier caliper	0 - 200 mm L.C. 0.01 mm (Optional)	2	25462	50924
161	Vernier Bevel protector	Range 360deg, LC. : 5min(150mm blade)	2	35677	71354
162	Carbide Wear Block.	1 mm - 2 mm	4	2273	9092
163	Lathe tools H.S.S. tipped set.		4	13184	52736
164	Lathe tools bit.	6 mm x 75 mm HSS/Carbide	8	634	5072
165	Lathe tools bit.	8 mm x 75 mm HSS/Carbide	8	703	5624
166	Lathe tools bit.	10 mm x 75 mm HSS/Carbide	8	790	6320
167	Arm strong type tool bit holder.	Right hand	4	726	2904
168	Arm strong type tool bit holder.	Left hand	4	600	2400
169	Arm strong type tool bit holder.	Straight	4	700	2800
170	Stillson wrenches	250 mm	4	522	2088
171	Pipe cutter wheel type.	6 mm to 25 mm	2	2739	5478
172	Pipe bender machine spool type with stand manually operated.	up to 25 mm cold bending	2	32510	65020
173	Adjustable pipe chain tonge to take pipes	up to 300 mm	2	18887	37774
174	Adjustable spanner.	380 mm long	2	1739	3478
176	Pillar Type Drilling machine	Sensitive 0-20 mm cap. with swivel table motorised with chuck & key.	2	51177	102354
177	Drilling machine bench	Sensitive 0-12 mm cap motorised with chuck and key.	4	25335	101340
178	D.E. pedestal Grinding	2 H.P.-3Phase-415V,	2	93320	186640

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	machine with wheels rough and smooth	1500 rpm, 250 Dia wheel			
179	Compressor unit	suitable for Pressure: 8 bar, Delivery: 50 lpm (or more), Reservoir capacity: 24 Litres (or more), 230V, 50 Hz, with pressure regulator and water separator	2	24155	48310
180	Pneumatic Trainer Kit, each consisting of the following matching components and accessories:		2	114249	228498
	I. Single acting cylinder	Max. stroke length 50 mm, Bore dia 20 mm	2		
	II. Double acting cylinder	Max. stroke length 100 mm, Bore dia 20 mm, magnetic type	2		
	III. 3/2-way valve	manually-actuated, Normally Closed	4		
	IV. 3/2-way valve	pneumatically-actuated, spring return	2		
	V. One-way flow control valve		4		
	VI. 5/2-way valve	with manually-operated switch	2		
	VII. 5/2-way valve	pneumatically-actuated, spring return	2		
	VIII. 5/2-way pneumatic actuated valve	double pilot	2		
	IX. 3/2-way roller lever valve	direct actuation Normally Closed	4		
	X. Shuttle valve (OR)		2		
	XI. Two-pressure valve (AND)		2		
	XII. Pressure gauge	0-16 bar	2		
	XIII. Manifold with self-closing	NRV, 6-way	2		
	XIV. Pushbutton station for electrical signal input	with 3 illuminated momentary-contact switches (1 NO + 1 NC)	2		

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		and 1 illuminated maintained-contact switch (1 NO + 1 NC), Contact load 2A			
	XV. Relay station	with 3 relays each with 4 contact sets (3NO+1NC or Change-over type), 5 A	2		
	XVI. 3/2-way single solenoid valve	with LED	2		
	XVII. 5/2-way single solenoid valve	with manual override and LED	2		
	XVIII. 5/2-way double solenoid valve	with manual override and LED	2		
	XIX. Power supply unit,	Input voltage 85 – 265 V AC, Output voltage: 24 V DC, Output current: max. 4.5 A, short-circuit-proof.	2		
	XX. Profile plate, Anodised Aluminium	1100x700 mm, with carriers, mounting frames and mounting accessories (To be fitted onto the pneumatic workstation)	2		
181	Pneumatic Workstation with 40 square mm aluminium profile legs, wooden work surface, and one pedestal drawer unit having 5 drawers, each with handles and individual locks, on metallic full panel drawer slide:	(1) Work Table – Size(Approx.) L1200mmXW900mmXH900mm, with four castor wheels including two lockable wheels at the front side, (2) Drawer – Size (Approx.) – L460mmxW495mm xH158mm each, and overall size of Drawer unit (Approx.) - L470mmxW495mmxH825mm and (3) Drawer slide height (Approx.) 85mm.	2	59361	118722
182	Carrier for mounting components, such as PB & relay boxes.		2	24212	48424
183	Cut section model for pneumatic components		2	36923	73846
184	Hydraulic Trainer Kit, each consisting of the following matching components and accessories:		2	127294	254588

4/24
29/07/2020

29/7/20

(i) Hydraulic Power pack	with (1) external gear pump having a delivery rate of 2.5 lpm, (approx.) @ 1400 rpm operating pressure 60 bar, coupled to a single-phase AC motor (230 V AC) having start capacitor and ON/OFF Switch and overload protection (2) pressure release valve adjustable from 0-60bar,(3) oil reservoir ≥ 5 liter capacity having side glass drain screw, air filter P and T ports.	2
(ii) Pressure relief valve	pilot-operated	2
(iii) Drip tray, steel	size 1160 mm x 760 mm.	2
(iv) Pressure Gauge	Glycerin-damped, Indication range of: 0 – 100 bar	2
(v) Four-Way distributor	with five ports, equipped with a pressure gauge	2
(vi) Double acting hydraulic cylinder	with a control cam, Piston diameter 16 mm, Piston rod diameter 10 mm, Stroke length 200 mm.	2
(vii) Suitable Weight	for vertical loading of hydraulic cylinder	2
(viii) Mounting kit for weight	for realizing pulling and pushing load.	2
(ix) 3/2-way directional control valve	with hand lever actuation.	2
(x) 4/2-way directional control valve	with hand lever actuation.	2

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29/7/20

	(xi) 4/3-way directional control valve	closed-centre position, with hand lever actuation.	2		
	(xii) Non-return valve.		2		
	(xiii) Pilot-operated check valve	pilot to open.	2		
	(xiv) One-way flow control valve	with integrated check valve.	2		
	(xv) T-Connector with self sealing coupling nipples (2 Nos.) and quick coupling socket (1 No.).		2		
	(xvi) Profile plate	Anodised Aluminium, 1100x700 mm, with carriers, mounting frames and mounting accessories (To be fitted onto the Hydraulic workstation)	2		
185	Hydraulic Workstation with 40 square mm aluminium profile legs, wooden work surface, and one pedestal drawer unit having 5 drawers, each with handles and individual locks, on metallic full panel drawer slide:	(1) Work Table – Size(Approx.) L1200mmXW900mmXH900mm, with four castor wheels including two lockable wheels at the front side, (2) Drawer – Size (Approx.) – L460mmxW495mm xH158mm each, and overall size of Drawer unit (Approx.) - L470mmxW495mmxH825mm and (3) Drawer slide height (Approx)	2	59361	118722
186	Cut section model for hydraulic components		2	53652	107304
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The above expenditure may be met out of STRIVE scheme

Kaishash chandra luma
Sattgobrata Barik

Sign of Requisitioning Officer

29.2.20

Sign of Training Officer

Signature of ASK

Signature of Section Officer



Subodh
Chairman
IMC SOCIETY
I.T.I., BARBIL

Principal,
Industrial Training Institute,
Barbil
Principal
Industrial Training Institute
Barbil, Keonjhar

GOVT. I.T.I. BARBIL**FORMAT FOR REQUISITION OF RAW-MATERIALS/TOOLS & EQUIPMENTS/ STATIONARY MATERIALS/ SPORTS MATERIALS & OTHER ITEMS**

To

The Principal,
I.T.I., Barbil.

Sub:

Tool & Equipment as per syllabus.

Sir,

The following materials / items as mentioned below for are required for affiliation of new Trade SolarTechnician under "STRIVE" scheme may kindly be procured as soon as possible.

Sl.no.	Name of the Tool & Equipments(Trainee tool kit)	Specification	Quantity Reqd. as per Norms	PRICE PER UNIT	TOTAL COST
1	Measuring Steel Tape	5 meter	34	102	3468
2	Combination Plier Insulated	200 mm	34	284	9656
3	Screw Driver Insulated	4mm X 150 mm, Diamond Head	34	62	2108
4	Screw Driver Insulated	6mm X 150 mm	34	73	2482
5	Electrician screw driver thin stem insulated handle	4mm X 100 mm	34	57	1938
6	Heavy Duty Screw Driver insulated	5mm X 200 mm	34	73	2482
7	Electrician Screw Driver thin stem insulated handle	4mm X 250 mm	34	103	3502
8	Punch Centre	9mm X 150 mm	34	92	3128
9	Knife Double Bladed Electrician	100 mm	34	156	5304
10	Neon Tester	500 V	34	61	2074
11	Steel Rule Graduated both in Metric and English Unit	300 mm with precision of 1/4th mm	34	77	2618
12	Hammer, cross peen with handle	250 grams	34	241	8194
13	Electrical Symbol and Accessories Charts		4	350	1400
14	Pipe vice Cast Iron with hardened JAW OPEN TYPE	100 mm	2	6959	13918
15	Hand Vice	50 mm jaw	2	391	782
16	Table Vice	100 mm jaw	2	3062	6124
17	Hacksaw frame (with	Adjustable 300 mm	2	500	1000

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	blade)	ADJUSTABLE TYPE			
	File flat	200 mm 2nd cut with handle	2	460	920
18	File half round	200 mm 2nd cut with handle	2	834	1668
19	File round	200 mm 2nd cut with handle	2	580	660
20	Pliers long nose insulated	150 mm	4	300	1200
21	Pliers flat nose insulated	200 mm	4	350	1400
22	Pliers, round nose insulated	100 mm	4	400	1600
23	D.E. metric Spanner Double Ended	6 - 32 mm	2	1420	2840
24	Gauge, wire imperial stainless steel marked in SWG & mm	Wire Gauge - Metric	2	1078	2156
25	Portable Electric Drill Machine	0-12 mm capacity 750W, 240V with chuck and key	1	6297	6297
26	Crimping Tool	1.5 sq mm to 16 sq mm 16 sq mm to 95 sq mm	1	15000	15000
27	Pliers Side Cutting	150 mm	2	90	180
28	Wire stripper adjustable length		2	90	180
29	Hammer, ball peen With handle		2	350	700
30	Scriber (Knurled centre position)		2	250	500
31	Tool kit Box/bag portable		5	5000	25000
32	Allen Key		1	258	258
33	Scissors blade	150 mm	2	164	164
34	Electrical loads: set of Incandescent lamp, Tube light, CFL, LED light, Heater and Geyser	Electrical loads: set of Incandescent lamp, Tube light, CFL, LED light, Heater and Geyser	2	13000	26000
35	Torque wrench	8N-m to 15N-m	1	2500	2500
36	Pipe Cutter to cut pipes	upto 5 cm. dia	1	10000	10000
37	Pipe Cutter to cut pipes	above 5 cm dia	1	15000	15000
38	Try Square	150 mm blade	2	250	500
39					

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40	Multi Meter (analog)	0 to 1000 M Ohms, 2V to 500 V, 100microA to 10A DC and ACmicroA to 10A DC and AC	1	1500	1500
41	Load Bank (variable)	Up to 1.2 KW (Lamp / heater	1	5000	5000
42	Wire Cutter and Stripper	150 mm	4	90	360
43	Earth Plate	60cm X 60cm X 3.15mm Copper Plate 60cm X 60cm X 6mm GI Plate	1	31000	31000
44	Earth Electrode	Primary Electrode 2100x28x3.25mm Secondary Cu Strip 20x5mm	1	15700	15700
45	Out Side Micrometer	0 - 25 mm least count 0.01mm	2	6400	12800
46	Tap set	Different size	2	1000	2000
47	Trolley for Transportation of Batteries		2	10000	20000
48	Die for Threading	Different sizes	2	5000	10000
49	Rooftop Mounting Structure	For 4 x 250 W solar panels mounting practice, with tilt adjustment	2	25000	50000
50	Electrical wiring and switch gear rack	Electrical control elements suitable for practice of control circuits using banana plugs and sockets	1	20000	20000
51	Protective relays and contactors rack	suitable for practice of control	1 No.	20000	20000
52	MCCB	100Amps, Triple pole	1 No.	8000	8000
53	ELCB and RCCB	25Amps, double pole and 25Amps, double pole, IΔn 30 Ma	1 Each	17000	17000
54	Fuses	HRC Glass Rewire Type	4 Each	1000	1000
55	Cables: Twisted Pair Nonmetallic Sheathed Cable Underground Feeder Cable Ribbon Cable Metallic Sheathed Cable Multi-Conductor Cable Coaxial	1 mtr each	1 Each	1000	1000

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CableDirect-Buried Cable					
56	Solar cable (Red)	5 square mm	As required	3000	3000
57	Solar cable (Black)	5 square mm	As required	3000	3000
58	Three core wire	(230 V, 15 A)	As required	3000	3000
59	Battery cable	7.5 sqmm	As required	4000	4000
60	Resin cored Solder		As required	500	500
61	Solder wax		As required	500	500
62	MC – 4 connector		As required	500	500
63	pins	5 mm	As required	500	500
64	lugs	7.5 mm	As required	500	500
65	Hacksaw blades	200 mm, 300 mm	As required	500	500
66	Bolts, nuts, anchor bolts, washers, screws, other pins, lugs etc		As required	1000	1000
67	Civil work utensils	spade, mixing spoon, leveling plates	1 Set	1000	1000
68	Plumbing tools		1 Set	5000	5000
69	Plumbing raw materials		As required	2000	2000
70	Civil work raw materials		As required	1000	1000
71	Multimeter	Digital 0 to 1000 M Ohms, 2V to 700V, 100 microA to 10A DC and AC	02 Nos.	5000	10000
72	Megger	Analog - 500 V	01 Nos.	19000	19000
73	Hydrometer		04 Nos.	700	2800
74	Solar Insulation meter		02 Nos.	1000	2000
75	Pyranometer		01 No.	20000	20000
76	Pyrheliometer		01 No.	20000	20000
77	Lux meter	Lux meter LCD read out 0.05 to 7000 Lumens with battery.	02 Nos.	3000	6000

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78	Magnetic Flux Meter	0-500 tesla	02 Nos.	3000	6000
79	Tong Tester / Clamp Meter	0 - 100 A (Digital Type)	01 Nos.	2500	2500
80	Soldering Iron	25 Watt, 65 Watt and 120 Watt, 230v	02 Nos. Each	2000	4000
81	Temperature controlled Soldering Iron	50 Watt, 230 Volt	02 Nos.	02 Nos.	6000
82	Thermometer Digital	0° C - 150° C	01 No.	01 No.	2000
83	Sun Shine recorder		02 No.	02 No.	20000
84	Weather monitoring station	To monitor and record Sunshine, wind velocity, temperature, rainfall etc with software etc with software	01 No.	01 No.	320000
85	Solar cell based sunlight radiation meter	For Solar power measurement up to 2000 w/square meter	02 No.	02 No.	10000
86	Magnetic compass		04 No.	500	2000
87	Cut models of photo voltaic cell assembly		02 Nos.	15000	30000
88	Cut model of Lead acid battery		01 No.	10000	10000
89	Lead Acid battery	12V, 40Ah, 75Ah	01 Each	10000	10000
90	Lead Acid battery	12V, 100 Ah	04 Nos.	10000	40000
91	solar simulator for solar cell	To study I curve of solar cell of min 2watt	01 No.	300000	300000
92	IV Curve tester		01 No.	30000	30000
93	Sun path finder		01 No.	5000	5000
94	Solar energy trainer with grouping of solar cells	To group (series or parallel) at least six solar cells each with minimum 2W with suitable loads	01 No.	50000	50000
95	Solar tracker demonstrator kit	To study manual and automatic control of 10 W solar panel in East-west and North-south & back	01 No	60000	60000
96	Solar PV e-learning software using animations for training		01 License	15000	15000

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97	Halogen lamp with stand for illumination of solar panel in lab	AC mains operated to provide 0 to 1000 watts per meter square	02 Set	5000	10000
98	Motorized Bench Grinder	AC mains operated	01 No.	7000	7000
99	Battery Charger	0 - 6 - 9 - 12 - 24 - 48 V, 30amp	01 No.	10000	10000
100	Solar photovoltaic module	75 W mono crystalline module 75 W amorphous silicon module 250 W thin film module 5W, 10W, 40W poly crystalline module	01 Each	30000	30000
101	Solar panels	250 Wp	04 Nos.	20000	80000
102	Solar Charge controller with Dusk to Dawn automatic switching	12V, 10A	05 Nos.	25000	125000
103	Solar charge controller with manual switch (Day lighting)	12 V 10 A	05 Nos.	5000	25000
104	Array junction box	for connecting 250W x 4 Nos. solar panel with DC fuse, DC MCB, and surge suppressor protection	02 Nos.	5000	10000
105	Solar lantern	LED type	01 No.	3000	3000
106	Solar lantern	CFL type	01 No.	3000	3000
107	Solar lantern assembly sets		01 No.	5000	5000
108	Home light system	12 V DC with FM receiver, LED bulb and mobile charger as loads	01 No.	5000	5000
109	Solar cell kit		01 No.	25000	25000
110	Clinometer	for Angle measurement	01 No.	10000	10000
111	Spirit level	For floor level check	01 No.	3000	3000
112	Anemometer	for wind speed measurement	01 No.	5000	5000
113	DC table fan	12 V	01 No.	2000	2000
114	A.C. Voltmeter M.I	0 - 500V AC	02 Nos.	1000	2000

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115	Volt meter	0 - 30V	02 Nos.	1000	2000
116	Volt meter	0 - 100V	02 Nos.	1000	2000
117	Ammeter MC	0 - 1A	02 Nos.	1000	2000
118	Ammeter MC	0 - 5A	02 Nos.	1000	2000
119	Ammeter MC centre zero	0 - 20A	02 Nos.	1000	2000
120	Ammeter MC centre zero	0-50A	02 Nos.	1000	2000
121	Power Factor Meter		01 No.	1000	1000
122	Rheostat	0 -1 Ohm, 5 Amp -10 Ohm, 5 Amp -25 Ohm, 1 Amp -300 Ohm, 1 Amp	01 No. each	20000	20000
123	A.C. Energy Meter	Single Phase, 10 A, 240 V induction type	01 No.	3000	3000
124	A.C. Energy Meter	Three Phase, 15 A, 440 V induction	01 No.	3000	3000
125	Kilo Wattmeter Analog	0-1.5-3KW, pressure coil rating- 240v/440v, current rating- 5A/10A Analog	02 Nos.	3000	6000
126	Digital Wattmeter	230 V, 1 KW, 50 Hz	02 Nos.	5000	10000
127	Phase Sequence Indicator	3 Phase, 415 V	02 Nos.	3000	6000
128	Frequency Meter	45 to 55 Hz	02 Nos.	1000	2000
129	DC LED Lamp	3W, 5W, 10W	50 Each	3000	3000
130	DC Pump	24 V	02 Nos.	5000	10000
131	PWM Controller		04 Nos.	2000	8000
132	MPPT Charge Controller		04 Nos.	5000	20000
133	Inverter with Battery	1 KVA with 12 V Battery Input- 12 volt DC,	01 No.	35000	35000
134	Solar PCU	Off grid 1 KW MPPT Sine wave Solar	04 Nos.	320000	1280000
135	Solar Grid tied inverter Demonstrator kit	300W KW	01 No.	25000	25000
136	Solar Street Light	12V, 75Ah battery, 75 Wp solar panel, 12V, 10A dusk to dawn charge controller, 60 W LED lights and 9	01 No.	10000	10000

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		mheight pole all dismountable			
137	Solar, wind and hybrid power plant	1 KW cumulative	01 Nos.	200000	200000
138	Solar Traffic Light	12V, 75Ah battery, 75 W solar panel, 12V, 10A dusk to dawn charge controller, 15 W LED lights with suitable colors and 9 m height pole all dismountable	01 No.	15000	15000
139	Used water treatment solar plant demonstrator kit	1 liter capacity	01 No.	50000	50000
140	solar DC pump	1 HP	01 No.	10000	10000
141	Demonstration kit for wind generation (Wind turbine with blower)	300 W	01 No.	50000	50000
142	Rechargeable battery	12 V 100 Ah	As required	20000	20000
143	Rechargeable battery	12 V 7 Ah	As required	20000	20000
144	Rechargeable battery	6 V 5 Ah	As required	10000	10000
145	LED lights	12 V DC	As required	3000	3000
146	LED lights	6 V DC	As required	3000	3000
147	Rubber gloves		10 Pair	1000	10000
148	Cotton gloves		05 Pair	1000	1000
149	Gum boots		02 Pair	3000	6000
150	Safety Goggles		04 Nos.	100	400
151	Safety Helmet		04 Nos.	1000	4000
152	First Aid kit		02 Nos.	3000	6000
153	Fire Extinguisher CO ₂	2 KG	02 Nos.	7000	14000
154	Fire Buckets	Standard size	02 Nos.	5000	10000
155	Working Bench	2.5 m x 1.20 m x 0.75 m	04 Nos.	15000	60000
156	Wiring Board	3 meters x 1 meter with 0.5 meter projection on the top	01 No.	25000	25000
157	Instructor's table		01 No.	5000	5000

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158	Instructor's chair		02 Nos.	2000	4000
159	Trainee Chair		01 for Each	500	20000
160	Trainee table for two trainee		10 Nos.		
161	Metal Rack	100cm x 150cm x 45cm	04 Nos.	15000	60000
162	Lockers with drawers		01 for Each Trainee	30000	30000
163	Almirah	2.5 m x 1.20 m x 0.5 m	01 No.	20000	20000
164	Black board/white board	(Minimum 4X6 feet)	01 No.	3000	3000
				Total=	3937961

The above expenditure may be met out of the **STRIVE** Project Fund

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07-07-21
Yashabanta Naik
Sign of Requisitioning Officer
Incharge Solar
Technician Trade

07-07-21
Sign of Training Officer

07-07-2021
Signature of ASK

07-07-2021
Signature of Section Officer

Approved

Principal,
Industrial Training Institute,
Barbil

Chairmen ,
Institute Management Committee(IMC)
ITI Barbil