

TENDER PROPOSAL



Tender Notice # P-KR-19/01-02
Repair & Maintenance of Textile Machinery/Lab. Equipment

National Textile University, Sheikhpura Road, Faisalabad-37610
www.ntu.edu.pk

M/S.....

ADVERTISEMENTS OF THE TENDER # P-KR-19/01-02

Last date: 18-02-2019

i.	PPRA website dated	18-01-2019
ii.	Jang	20-01-2019
iii	Dawn	20-01-2019
iv	NTU website dated	18-01-2019

Advertisement as it is:

National Textile University, Faisalabad

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Repair & Maintenance of Textile Machinery/Lab. Equipment

1. National Textile University, Faisalabad invites bids {PPRA Rule-36(b)} in sealed envelopes from the original Manufacturers, their Authorized Agents/Distributors/Firms (Registered with Government tax authorities) for the repair & maintenance of following Textile machinery/Lab. equipment at NTU Karachi Campus, Korangi Industrial Area, Karachi. Detail and quantity of each machine is in the tender document.

List of Textile machinery/ Lab. Equipment

(1) Blow Room (2) Vertical Weighing Chute (3) Two Way Distributor (4) Chute Feed (5) Carding Machine (6) Lap Former (7) Combing Machine (8) Ring Frame (9) Open End Machine (10) Mach Corner (11) Weaving Loom (12) Vertical Weighing Chute (13) Bailing Press & Utility Services (14) Laboratory Padder (15) Multi Bath Machine (16) Water Shaking Baths (17) Moisture Analyzer (18) Viscosity Measuring System (19) Bursting Strength Tester (20) ICI Pilling Tester (21) Air Permeability Tester (22) Xenon Arc Light Fastness Tester (23) Hot Plate (24) Atomic Absorption Spectrophotometer (AAS) (25) Rota Vapours with Chillers (26) Shaking Water Baths (27) Explosion Proof Cabinets (28) Practical Benches "Nos.02" (29) Polymer Processing Machines (30) Polymer Testing Equipment (31) Humidity Control Unit (32) Auditorium A/C (33) Auxiliary Equipment (34) Power Supplies and Lines.

2. Tender Document may be downloaded from the official website of NTU (www.ntu.edu.pk) or may be obtained from the office of Convener Purchase. The fee of Tender Document is non-refundable **Rs. 1,000/-** (Rupees One Thousand only). The tender document fee will be accepted in shape of Pay order/Demand Draft drawn on Faisalabad in the name of "National Textile University, Faisalabad".
3. Eligible firms should submit their bids along with **2%** earnest money of the total quoted price in sealed envelope of Financial Bid in the shape of CDR/Bank Draft in favors of National Textile University, Faisalabad, drawn on Faisalabad.
4. **Date, Time and Venue:** Sealed bids should reach in the office of Convener Purchase (Faisalabad campus) by or before **2:30 pm** on **18-02-2019**. Bids received within the stipulated time and date **will be opened** by the Purchase Committee in the **Meeting Room of NTU Faisalabad** on the **same day** at **3:00 pm** in the presence of the bidders or their authorized representatives.
5. Bidders may visit Laboratories/workshops on site (Monday to Friday during office hours) to get more information about the Machinery/Lab. equipment. The names of contact persons for any technical query:
 - i) Dr. Syed Saqib Shams (Assist. Prof., Polymer Engg.): 021-35066955, 0345-2219747
 - ii) Mr. Mohsin Ali (Lecturer, Textile Engineering): 0334-3037651

Prof. Dr. Zahid Rizwan

Convener Purchase

041-9230081-85 (Ext. 159)

National Textile University, Shekhupura Road, Faisalabad-37610

www.ntu.edu.pk

1.	IMPORTANT NOTE
i	All repaired machines/equipment must be operational on site.
ii	It is the responsibly of the bidder to purchase/arrange/import new part of the machines/equipment. Used part(s) not allowed to use to make the machine(s)/equipment.
iii	All machines must be operational on site for a period of 06 months .
iv	Successful bidder is bound to repair machines/equipment with in the time limit given in his offer. Bidder's offer with time limit will be considered from the date of the work order. In unforeseen situation, bidder is bound to get permission from the Rector NTU giving solid reasons. Otherwise situation will be declared as "failure" to fulfill the Tender terms and conditions. Then Bid Security @ 02% will be forfeited and case will be forwarded to the competent authority to declare as BLACK LISTED firm/company as per PPRA rules-19.
ix	NOTE: Whereas a specific brand is indicated, equivalent option should be added as per PPRA rule-10
2.	Deadline and Procedure for Bids:
i.	Tender Proposals required under PPRA Rule 36(b)
ii.	PPRA Rule 36(b): Single stage two envelope procedure. Technical & Financial Bids must be sealed (separately) with covering letter. There must be clearly mentioned on each envelope "Technical proposal" / "Financial Proposal". NOTE: 2 nd , 3 rd , 4 th option(s) of any complete item or its any part will not be considered in any case. Only 1 st option will be considered for healthy competition under this rule.
3.	Bidder's Eligibility and Qualification
i.	Bidding firm must be registered with Govt. tax authorities (Sale Tax & Income Tax etc.) and will submit the certificates of registration.
ii.	An Affidavit duly attested by the Oath Commissioner/Notary Public showing that the firm is not Black-listed from any Govt./Semi Govt. Department of the Pakistan.
iii.	Bidder will provide address of nearest office to Faisalabad / Karachi (mandatory) and Web page address (optional).
4.	Sealed "Technical & Financial Bid"
i.	Technical & Financial Bids must be sealed carefully (separately) with covering letter. There must be clearly mentioned on each envelope "Technical proposal" / "Financial Proposal".
5.	Conditional Tender:
i.	Any condition(s) imposed by the bidder will not be accepted.
6.	Bid Security (PPRA Rule-25):
i.	Bidders must be accompanied by a Bid Security @ 02% of the quoted bid price in the shape of Pay Order / CDR in favor of National Textile University, Faisalabad. Put separate CDR (in financial offer envelope for each quoted item) for items/equipment. In case of failure tender document will not be entertained.
7.	Performance Guarantee (PPRA rule 39):
i.	An amount of 06% will be deducted as a performance Guarantee from the bill and shall be retained for the period 06 months from the date of machine operational at site.
8.	Taxes/Duties:
i.	All Govt. Taxes/Duties/Custom clearing charges etc. will be paid by the bidder. Necessary documents will be provided to the bidder for the exemption in Govt. Taxes/Duties etc. (Where applicable).
9.	Bid Validity Period:

i.	All pricing shall be guaranteed not to increase, based on an order placed. The offer should be valid for 120 days from the date of opening of the tender.
10.	Loading/Unloading/Commissioning/Installation/Training on site:
i.	Loading/Unloading/Installation/Training (for operation, maintenance & troubleshooting etc.) and testing of equipment/item/machine on site will be provided by the bidder.
11.	Country of Origin and Packing:
i.	The items/parts must be brand new and complete in all respects with original packing of manufacturer and strictly conforming to the given applicable specifications.
12.	Prices:
ii	The bidder/supplier should quote unit price of each single unit machine (including all its other sub components) to make it operational on site. Financial comparison will be made as per detailed list attached for healthy competition.
13.	Payments:
i	The Payment will be made on the availability of funds (approvals from Government planning agencies etc., other relevant authorities and University management). If payment is delayed (from Government planning agencies, other relevant authorities and University management) due to any reason; no extra interest/mark-up will be paid to the supplier/bidder.
14.	Warranty & availability:
i.	Warranty should be 06 months . 06 months will be considered from the date of installation (operational on site).
ii.	All expenditures {technical, personnel, any transportation (National/International) or any type of charges of repair / replacement of any part(s) of the item(s)/equipment during warrantee period will be borne by the supplier/bidder.
15.	Observation/inspection on site:
i.	Equipment/Machine will be inspected to observe operational on site by the Technical committee of National Textile University in the presence of the bidder representative. Then technical committee will submit inspection note.
iii.	In case of failure to complete the job within the stipulated time (without extension/approval from the competent authority i.e. Rector of National Textile University), a penalty at least 0.25% but not exceeding 10% per month will be imposed after the approval of competent authority. Tender with any cuttings, over writings and erasing shall not be entertained.
16.	Notification of Award/Black listing:
i.	The university will award the contract to the technically successful bidder whose tender has been determined to be substantially responsive and has been determined as the lowest financial proposal.
ii.	The University will display the official comparative statement on the notice board for which such date will be notified to all bidders accordingly.
iii.	In case the offer is withdrawn, amended or revised during the validity period of the tender, failure in the delivery (of machine/equipment/item or its part/accessory), the earnest money will be forfeited then the case will be forwarded to the competent authority to declare as BLACK LISTED firm/company. PPRA rule-19
17.	Mandatory Signature & Stamp:
i.	Bidder or its authorized representative must sign & stamp each page of the bid documents (technical & financial). Also bidder/supplier will provide the certificate that is provided in this document named as Certificate (Mandatory).
18.	Rights of the University:
i.	If there is any conflict, it is a fundamental term of the Tender that the Bidders acknowledges and accepts that the terms and conditions of the University shall prevail.
ii.	The University reserves the right to reject any or all bids with assigning reason(s).
iii.	The University reserves the right to ignore or waive off minor irregularities or errors in any offer.
iv.	The University reserves the right to award the contract to one bidder or divide it among several bidders. (if

	applicable)
v.	The University reserves the right to cancel the offer of the Bidder whose bid has been found financially to be the lowest if it is revealed to the University that the Bidder does not have the capability or financial resources or facilities to carry out the contract in accordance with the terms and conditions of this Tender Documents.
19.	Breach of Contract:
i.	In case of breach of warranty by the supplier/bidder, the damages suffered by the University shall be recovered from the supplier/bidder out of any payment due to the supplier/bidder and / or in accordance with the terms and conditions of the Contract Performance Bond mentioned without notice to the Contractor.
20.	Force Majeure:
i.	The supplier/bidder shall not be liable for any additional cost or for liquidated damages for delay or any failure to perform the Contract arising out of force majeure or cause beyond his/her control including acts of God, or of the public enemy. The supplier/bidder shall within ten (10) days from the beginning of such delay notify the University in writing of the causes of the delay. The University shall ascertain the facts and the extent of the delay and extend the time for completing the supplies as in its judgment the findings justify.
21.	Legal proceedings:
i.	The law of Pakistan shall govern the contract and the tender documents. Any dispute arising out shall be decided by Competent Authority of the University.
22.	Contact Person(s)
i.	<ul style="list-style-type: none"> i. Dr. Syed Saqib Shams (Assist. Prof., Polymer Engg.): 021-35066955, 0345-2219747 ii. Mr. Mohsin Ali (Lecturer, Textile Engineering): 0334-3037651

CERTIFICATE (Mandatory)

I (authorized official)..... On behalf of (Company name)solemnly
declare that I have read all the terms and conditions of this tender document (Tender#
P-KR-19/01-02for National Textile University Faisalabad), carefully. I also undertake the
responsibility that all the given information in tender proposal against the above said tender are
correct.

Signature

Date: _____

Company name address & stamp.

Textile Engineering Department

NO.	Equipment Name	Model No.	Make	Location
1	Blow Room	H.F 1000	Platt Saco Lowell Hollingworth	Spinning Lab
2	Vertical Weighing Chute	v.w 1000	Solonide	Spinning Lab
3	Two Way Distributor	-	Platt Saco Lowell Hollingworth USA	Spinning Lab
4	Chute Feed	FCF 40	Platt Saco Lowell Hollingworth	Spinning Lab
5	Carding Machine	TVPE 2000	Platt Saco Lowell Hollingworth	Spinning Lab
6	Lap Former	HISUPEP LAP	Platt Saco Lowell Hollingworth USA	Spinning Lab
7	Combing Machine	CA-A-B	Platt Saco Lowell Hollingworth	Spinning Lab
8	Ring Frame	SCB-PK.225	Platt Saco Lowell Hollingworth	Spinning Lab
9	Open End Machine	-	Bradford UNI UK	Spinning Lab
10	Mach Corner (Winding m/c)	90S×654720-01	Mach Corner JAPAN	Weaving Lab
11	Weaving Loom	TBX 24020	VAMATEX SPA ITALY	Weaving Lab
13	Bailing Press	SR. 25112	GERU BALEN PRESS GERMANY	Fiber Line Dept.
		TYPE R05S		
14	Laboratory Padder	SR. 2268 96	ROACHES INTL .LTD.	Processing Lab
15	Multi Bath Machine	SR. 226996	ROACHES INTL .LTD.	Processing Lab
16	Water Shaking Baths	-	-	Processing Lab
17	Moisture Analyzer	CA-06	MISTUBUSHI	Analytical Lab
18	Viscosity Measuring System	AVS 400	Schott-Gerate GMBH	Analytical Lab
19	Bursting Strength Tester	SR. 1005702	-	Physical Testing Lab
20	ICI Pilling Tester	SR. 116/2/96/2331	JAMES H. HEAL & CO. LTD.	Physical Testing Lab
21	Air Permeability Tester	SR. 02573	JAMES H. HEAL & CO. LTD.	Physical Testing Lab
22	Xenon Arch Light Fastness Tester	SR. 500/97/2009	JAMES H. HEAL & CO. LTD.	Processing Lab
23	Hot plate	-	-	Processing Lab
24	Atomic Absorption Spectrophotometer (AAS)	Z-8200 SR.0850-005	HITACHI LTD. JAPAN	Processing Lab
25	Rota Vapors with Chillers	SR. 1266085 TYPE B-700	BUCHI SWITZERLAND	Processing Lab
26	Shaking Water Baths	NR. NO7001 TYPE MT.20S	GERMANY	Processing Lab
27	Explosion Proof Cabinets	CAT NO.3551-1	VWR SCIENTIFIC INC.	ECO Lab

29-Plastic Processing Equipment

S. No	Equipment Name	Model	Made by	Location
29-i	Twin Screw Extruder	STS-90E	Sekisui	New Processing Hall
29-ii	Single Screw Extruder	OSE-65	Seisakusho	New Processing Hall

29-iii	Injection Moulding	J550E III	JSW	New Processing Hall
29-iv	Injection Moulding	J220E III	JSW	New Processing Hall
29-v	Single Stage Stretch Blow Moulding Machine	A8B-SOHII	Nissei ASB	New Processing Hall
29-vi	Vacuum Forming Machine	FM660	Formech	New Processing Hall
29-vii	Injection Moulding	DI 00-182	Demag	Old Processing Hall
29-viii	Injection Moulding	IS-80	Toshiba	Old Processing Hall
29-ix	Blow Moulding Machine	PVC45	Plabo	Old Processing Hall
29-x	Blow Moulding Machine	Reeves S-5I	Bekum	Old Processing Hall
29-xi	Multilayer Blown Film	BX-25	Anonab	Old Processing Hall
29-xii	Blown Film	KE-1	Shin Etsu	Old Processing Hall
29-xiii	Vacuum Forming Machine	MSG-89	Asano Lab	Old Processing Hall
29-ix	Two Roll Mill	4152	Francis Shaw	Old Processing Hall
29-x	Temperature Controlled Hot Press	-	Paul Weber	Old Processing Hall
29-xi	Ultrasonic Welder	Sonopet 450B	Seidensha	Old Processing Hall
29-xii	Ultrasonic Welder	OSP-1T	Telesonic AG	Old Processing Hall

PLASTIC TESTING EQUIPMENT (No. 30)

No.	Equipment	Model	Make	Location
30-i	High Performance Liquid Chromatography (HPLC — RID/SPD) (Refractive Index Detector /Diode Array Detector)	LC-20 A	Shimadzu	Instrumental Laboratory (Japanese Building)
30-ii	Gas Chromatography Spectrophotometer (GC-PY-FID/TCD) (With Double Shot Pyrolyzer) Flame Ionization Detector/ Thermal Conductivity Detector)	GC-2010	Shimadzu	Analytical Laboratory (Japanese Building)
30-iii	Differential Scanning Calorimetry (DSC)	DSC-60	Shimadzu	Analytical Laboratory (Japanese Building)
30-iv	Thermal Gravimetric Analysis	TGA-50	Shimadzu	Analytical Laboratory (Japanese Building)
30-v	Heat Distortion Temperature (HDT) / Vicat Softening Point	3 M 2	Toyoseiki	Analytical Laboratory (Japanese Building)
30-vi	Vicat Softening Point	POB 692/102 IP	Devenport	Mechanical testing Laboratory (Old Polymer Building)
30-vii	Fourier Transform Infrared Spectrophotometer (FTIR)	IR Prestige-21	Shimadzu	Instrumental Laboratory (Japanese Building)
30-viii	Spectro Color Meter	SE 2000	Nippon Denshoku	Instrumental Laboratory (Japanese Building)

30-ix	Water Vapour Permeability Tester	L80-4000-505	Lyssy	Analytical Laboratory (Japanese Building)
30-x	Gas Transmission Rate Tester	BR- 1	Toyoseiki	Analytical Laboratory (Japanese Building)
30-xi	Oxygen Indexer/ Flammability Tester	AC-606	Toyoseiki	Analytical Laboratory (Japanese Building)
30-xii	Melt Flow Indexer (MFR/MFI)	TZ4L	Devenport	Mechanical testing Laboratory (Polymer Department Building)
30-xiii	Roto Viscometer	OSK 2232	Ogawa Seiki	Mechanical testing Laboratory (Polymer Department Building)
30-xiv	Xenon Weather Meter	X-75	Suga Instruments	Processing Hall (Japanese Building)
30-xxiv	Hot Air Oven (upto 300°C)	OVEN 300 Plus	Gallenhamp	Polymer Science Laboratory (Polymer Department Building)
30-xxv	Universal Testing Machine (UTM)(Load Cell Max.Capacity: 10kN) (with Environmental test chamber)	4302	Instron	Mechanical testing Laboratory (Polymer Department Building)
30-xxvi	Universal Testing Machine (UTM) (Load Cell Capacity:10kN)	Autograph	Shimadzu	Analytical Laboratory (Japanese Building)
30-xxvii	Izod/Charpy/Tensile Impact Tester	DG UB 2 - 555	Toyoseiki	Analytical Laboratory (Japanese Building)
30-xxviii	Izod Impact Tester	Torino 6546/000	Ceast	Mechanical testing Laboratory (Polymer Department Building)
30-xxix	Rockwell Hardness Tester	Wizhard	Mitutoyo	Analytical Laboratory (Japanese Building)
30-xxx	Shore Hardness Tester	ASH	Mitutoyo	Analytical Laboratory (Japanese Building)
30-xxxi	Durometer for Hardness	Hardmetic	Mitutoyo	Analytical Laboratory (Japanese Building)
30-xxxii	Tear Strength Tester	E 350/132	Devenport	Physical Testing Laboratory (Japanese Building)
30-xxxiii	Mullen Type Bursting Tester	BU- 103	Tester Sangyo	Physical Testing Laboratory (Japanese Building)
30-xxxiv	Puncture Resistance Tester	BU-30 I	Tester Sangyo	Physical Testing Laboratory (Japanese Building)

30-xxxv	Creep Strength Tester	BE-40 1	Tester Sangyo	Physical Testing Laboratory (Japanese Building)
30-xxxvi	Falling Dart Impact Tester for Film/Sheet	6206/000	Ceast	Mechanical testing Laboratory (Polymer Department Building)
30-xxxvii	Short/Long Term Hydrostatic Pressure Testing Equipment	HTB-PT	Kikai Kenkyu	Processing Hall (Japanese Building)
30-xxxviii	Falling Ball Impact Tester For Pipes	IM 202-S	Tester Sangyo	Physical Testing Laboratory (Japanese Building)

31-Humidity Control Unit

S. No	Equipment Name	Model	Made by	Attached With	Location
31-a	Humidity Control Unit	30HR/100-F9100	CARRIER 100TON USA	For entire plant	Textile Building Compressor Room
31-b	AIR DEHUMIDIFIER UNIT MATSUI (MD 20)	AMC3-500	MATSUI	29-v	Japanese Building
31-c	Humidity Control Chamber		Ascon	Instrumental Lab	Japanese Building
31-d	All Display Of Air Handling Units		Carrier Co.		Textile Building

32-Auditorium AC

S. No	Equipment Name	Model	Made by	Attached With	Location
32	Auditorium A/C (QTY: 16)	1.5T	Daikool		Old Polymer Building

33-Auxiliary Equipment List

S. No	Equipment Name	Model	Made by	Attached With	Location
33-a	Air Compressor	R-70 A	CHAMPION PNEUMATIC	For entire plant	Textile Building Compressor Room
33-b	Electric steam boiler	-	IME	For entire plant	Textile Building Compressor Room
33-d	Air Handling Unit	39LC	CARRIER USA	For entire plant	Textile Building Compressor Room
33-e	Pipe Belling Machine	ORM-150 E	Sekisui	29-i	Japanese Building
33-f	High Speed Mixer	SMNC-100	Kawata	29-i	Japanese Building
33-g	Crusher	W-280	Hitachi Koki	For entire plant	Japanese Building
33-h	Water Cooling Chiller	AM4AC210A	ACSON	For entire plant	Japanese Building
33-i	AIR COMPRESSOR	HPD 06000	Donaldson	For entire plant	Japanese Building
33-k	Air Compressor	POD-7.5 5M5	Hitachi Package Bebicon	29-i & 29-vi	Japanese Building
33-l	Mold Temperature Controller	TWF-75LD	THERMOTEQ	33-e	Japanese Building
33-m	Mold Temperature Controller	TWF-600LD	THERMOTEQ	29-iii	Japanese Building
33-n	Mixer	KM23 FM 100	Henschel	For entire plant	Old Polymer Processing Hall
33-o	Cutter	CB 75 F	Hitachi Koki	For entire plant	Old Polymer Processing Hall

33-p	Crusher	-	Black Friars	For entire plant	Old Polymer Processing Hall
33-q	Air Compressor	Part No: 200061	Welded Air Receiver,	29-ix, 29-x, 29-xi	Old Polymer Processing Hall
33-r	Air Compressor	-	-	29-xii	Old Polymer Processing Hall
33-s	Mold Temperature Controller	TDW-1D-Q	Application Engineering Corporation	29-vii	Old Polymer Processing Hall
33-t	Cold Water Chiller	-	-	For entire plant	Old Polymer Processing Hall
33-u	Nitrogen/Hydrogen/Helium gas cylinders			30-ii	Japanese Building
33-v	Nitrogen cylinder/Air Compressor (Hitachi)/Cooler (Thermo Scientific)/Sample Aluminum Pen Crimper		Hitachi	30-iii	Japanese Building
33-w	Nitrogen Cylinder			30-iv	Japanese Building
33-x	Oxygen Cylinder/Vaccum Pump		UVLAC Kiko Inc.	30-x	Japanese Building
33-y	Oxygen/Nitrogen & LPG Cylinder			30-xi	Japanese Building
33-z	Distilled Water/Deionized machine			30-xiv	Old Polymer Building
33-aa	High Temperature Oven			30-xxv	Old Polymer Building
33-ab	Air Compressor for Pnuematic Calculation		Toshiba Toscon	30-xxvi	Old Polymer Building
33-ac	Fridge for Chemicals (PEL)		PEL	Instrumental Lab	Japanese Building
33-ad	Hydrogen/Helium/Nitrogen/LPG/Oxygen		Contract with BOC Company	Instrumental Lab	Japanese Building
33-ae	Gas Cylinder Carrying Trollies (QTY: 02)			-	Japanese Building
33-af	Low Temperature Chamber			Polymer Science Lab	Old Polymer Building
33-ag	Fridge for Chemicals		Dawlance	Polymer Science Lab	Old Polymer Building
33-ah-i	Cooling Towers (Qty: 2)		Carrier	For entire plant	Textile Building
33-ah-ii	Cooling Towers (Qty: 1)	35T	Atson	For entire plant	Japanese Building
33-ai	Service Lift		Sideron	For entire plant	Textile Building
33-ak	Fresh Water Lifting Pump (QTY: 02)		Siemens	For entire plant	Textile Building
33-al	Steam Boiler		IME	For entire plant	Textile Building

33-am	Air Filters On Supply Lines to Fibre , Textile Plant and Laboratories.			For entire plant	Textile Building
34-Power Supply and Lines					
NO.	Equipment Name	Model	Make	Attached with Machine	Location
34-a	UPS		ARTONIC	Analytical Laboratory	Old Polymer Building
34-b-i	4 Core 240 mm cable - 75 meter			For entire plant	Japanese Building
34-b-ii	240mm Lux (QTY: 24)			For entire plant	Japanese Building
34-c-i	4 Core 95mm Cable - 135 meter			For entire plant	Old Polymer Building
34-c-ii	95mm Lux (QTY: 24)			For entire plant	Old Polymer Building
34-d	Power Generator	760KVA	FG Willson	For entire plant	Textile Building
34-e	Power Generator	200KVA	CAT	For entire plant	Japanese Building
34-f	Power Generator	200KVA	FG Willson	For entire plant	Old Polymer Building
34-g	Power Generator	17.5KVA	FG Willson	For entire plant	Textile Building
34-h	1000 KVA Transformer Dehydration and repairing (QTY: 02)			For entire plant	Textile Building
34-i	11 KV Incoming & Outgoing Switches			For entire plant	Textile Building
34-j	L.T Panels Main Breakers			For entire plant	Textile Building
34-k	Power Supply 120/220 VAC 30 watts (GE FNUC) IC 693 PWR 321 AA			Textile Blow Room (No. 1)	Textile Building