PREJHA Foundation Reference: 1383-PREJHA01/24/230

# REQUEST FOR QUOTATION

FOR

Partner Empanelment & Supply of Smartphone assembly setup items

Dated: 27th January 2024

### PanIIT Alumni Reach For Jharkhand Foundation

A Non-profit Special Purpose Joint Enterprise between agencies of Department of Welfare, Government of Jharkhand and
PanIIT Alumni Reach For India
Foundation, Kalyan Complex, Balihar
Road, Morabadi,
Ranchi – 834008, Jharkhand

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# **DISCLAIMER**

The information contained in this Request for Quotation ("RFQ") or subsequently provided to Bidder(s), whether verbally or in documentary or any other form by or on behalf of PanIIT Alumni Reach For Jharkhand Foundation (hereinafter "PREJHA") is provided to interested parties on the terms and conditions set out in this RFQ and such other terms and conditions subject to which such information is provided.

This RFQ is not an agreement and is neither an offer nor an invitation by PREJHA to interested parties who submit their quote (henceforth "Bidders") in response to this RFQ. The purpose of this RFQ is to provide Bidders with information that may be useful to them in preparing and submitting their proposals ("Proposal") for selection as supply agency with PREJHA Foundation as per notified norms.

PREJHA Foundation makes no representation or warranty and shall have no liability to any person or Bidder under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this RFQ or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the RFQ and any assessment, assumption, statement or information contained herein or deemed to form part of this RFQ or arising in any way from this process.

A Bidder must warrant that all the information provided by it to PREJHA Foundation at the time of application & subsequently, is true to the best of it's knowledge and belief, and specially warrants that it has duly complied with the provisions of laws applicable to it. Bidder indemnifies PREJHA Foundation from any liabilities arising out of error or default or negligence or contravention in regard to any of the applicable laws, including, but not limited to, submission of statutory forms & other such documents.

The issue of this RFQ does not imply that PREJHA Foundation is bound to select any Bidder(s) or select any Bidder(s) for any project. PREJHA Foundation may accept or reject any proposal in its discretion and may ask for any additional information or vary its requirements, add to or amend the terms, procedure and protocol set out in RFQ for bona fide reasons, which will be notified to all the Bidders invited to tender. Further PREJHA Foundation hereby reserves its right to annul the process at any time prior to issuance of Purchase Order without incurring any liability towards the Tenderers.

The Bidder shall bear all costs associated with or relating to the preparation and submission of its Proposal including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by PREJHA Foundation or any other costs incurred regarding or relating to its Bid. All such costs and expenses will remain with the Bidder and PREJHA Foundation shall not be liable in any manner for the same or for any other costs or expenses incurred by a Bidder in preparation or submission of the Bid, regardless of the conduct or outcome of this RFQ and related processes.

# **SECTION 1: LETTER OF INVITATION**

PanIIT Alumni Reach for Jharkhand (PREJHA) Foundation invites proposals from reputed bidders for supply of Smartphone assembly setup items for PREJHA Foundation's Kaushal Colleges and Kalyan Gurukuls in Jharkhand.

A bidder will be selected based on Lowest Cost Method (L1 basis) from suitable agencies qualifying the criteria as per described in this RFQ.

The content of this RFQ enlists the requirements of PREJHA Foundation. It includes the **Bidding Terms & selection** procedure which details out all that may be needed by the potential bidders to understand the financial terms and bidding process and explains the contractual terms that PREJHA Foundation wishes to specify at this stage.

The RFQ includes the following sections:

Section 1 - Letter of Invitation

Section 2 - Instructions to Bidders (including pre-qualification criteria)

**Section 3 - Standard Forms** 

The information may be submitted online only at the following website.

https://eprocurement.mjunction.in/EPSV2Web/org/PREJHA/home.action

The information may be viewed online at the following website. <a href="https://www.jharkhand.gov.in/paniit">https://www.jharkhand.gov.in/paniit</a>

Yours faithfully,

Authorized signatory

PanIIT Alumni Reach For Jharkhand Foundation, Kalyan Complex, Balihar Road, Morabadi, Ranchi - 834008, Jharkhand

### **PREFACE**

### **About PREJHA Foundation**

Agencies of Department of Welfare, Government of Jharkhand and PanIIT Alumni Reach for India Foundation have partnered to form PanIIT Alumni Reach for Jharkhand (PREJHA) Foundation, a not-for- profit joint enterprise to implement and scale sustainable welfare initiatives. The initiative will replicate the PanIIT Skill Gurukul model of learning for skill development across all the districts of Jharkhand state and thus provide a network of ITI and sub-ITI institutions accessible to school dropouts, underprivileged and those who are from the lower strata of socio-economic background.

PREJHA Foundation sets up Rural Skill Gurukuls and Kaushal colleges to impart vocational Education to deserving candidates.

### **Purpose of RFQ**

The objective of this assignment is to procure Smartphone assembly setup items required for PREJHA Foundation's Gurukuls & Kaushal Colleges. The supplying agency should adopt a process that is not only transparent, competitive but should also be quick and timely.

Section 2: Instructions to I	Bidders

The evaluation criteria for the bidders is based on Lowest Cost Method (L1 basis) price bid subject to the bidders submitting and satisfying the basic qualification mentioned. **Each Bidder must submit a single proposal only.** 

PREJHA foundation shall endeavor to adhere to the following schedule but reserves the right to alter the same:

### Time schedule of Tender:

Sl.No.	Particulars	Date		
1.	Tender e-Publication date	27.01.2024		
2.	Start date for seeking Clarification	27.01.2024		
3.	Last date for seeking clarification on line from service provider	29.01.2024		
	(mjunction Services Limited)			
4.	Bid submission start date (only on-line bid accepted)	27.01.2024		
5.	Bid submission end date	09.02.2024 (08:00pm)		
6.	Schedule date for Technical bid opening	09.02.2024		
7	Comparative statement preparation by the system	09.02.2024		

### **General terms & Conditions:**

## 1. Detailed BOQ

S.No.	Description of Material	UOM
1	DC Power Supply Digital 24W DC Power Supply should have: 15V, 2Amp Variable Voltage and Current Power Supply, Transformer Based, Digital display for Voltage and Current separately, Short circuit and overload protection, Connectivity: 2 SATA Cables	each
2	DC Power Supply Digital 90W DC Power Supply should have: 48V, 2Amp Variable Voltage and Current Power Supply, Transformer Based, Digital display for Voltage and Current separately, Short circuit and overload protection, Connectivity: 2 SATA Cables	each
3	Wire Strippers, 0.08-10 mm2	each

6 Automatic Screwing Machine Hand held screwing machine should have LED light, Forward & reverse button, Magnetizer, Charging indicator, Micro type-C cabla alongwith following spectifications: No. of Bits: 20nos., No Load Speed: 280rpm, Manual Torque: 2N.m, Electric Torque: 0.25-0.35 Weight of electric screwdriver: 55g, Battery type: Lithium Ion	
6 Automatic Screwing Machine Hand held screwing machine should have LED light, Forward & reverse button, Magnetizer, Charging indicator, Micro type-C cabi alongwith following spectifications: No. of Bits: 20nos., No Load Speed: 280rpm, Manual Torque: 2N.m, Electric Torque: 0.25-0.35 Weight of electric screwdriver: 55g, Battery type: Lithium Ion	each
Hand held screwing machine should have LED light, Forward & reverse button, Magnetizer, Charging indicator, Micro type-C cabla alongwith following spectifications: No. of Bits: 20nos., No Load Speed: 280rpm, Manual Torque: 2N.m, Electric Torque: 0.25-0.35 Weight of electric screwdriver: 55g, Battery type: Lithium Ion	le
rechargable, Battery Voltage: 3.7V, Battery Capacity: 260mAh, Charging time: 45min.	
7 File	each
8 Double Sided Tape	each
9 Insulation Tape	each
10 Mobile Opener	each
11 Magnifying Lamp Should have magnification minimum upto 25 times alongwith int LED lights.	each puild
BGA Kit This stencil solder template should have min. 18 different type of stencils mainly used for mobile & other BGA reballing. BGA reball stencil should made of premium metal material.	
13 Ultrasonic Cleaner (200ml)	each

14	Multimeter	each
15	Line Tester	each
16	ESD Wrist Band Adjustable wrist strap size, ground wire should rotate 360 degree to provide flexible positionD, etachable ground wire.	each
17	ESD Mat, 100% Static Dissipative	each
18	ESD Tester	each
19	ESD Wrapper,100% Static Dissipative,	each
20	ESD Slippers, 100% Static Dissipative	each
21	ESD Gloves, 100% Static Dissipative,	each
22	ESD Coat, 100% Static Dissipative, made of fabric consisting of Polyester, Cotton and Conductive fibers, Size-?	each
23	ESD Safe Brush, static dissipative, used in cleaning delicate circuit boards	each
24	Tweezers, material- stainless steel, anti magnetic	each
25	Screwdriver Set for Smartphone repairing, should consist of min. 8 screwdrivers, 2 Opener,1 Magnifier	each

26	Torque Screwdriver Set Fixed Precision Torque Screwdriver for Mobile Phone Repair. Fix torque to prevent screw slippage, and sound a prompt when tightening screws. Automatically idle when reaching a fixed torque value, without damaging the screw column chip/circuit board. Overall	each
27	Length: approx 180mm. Consist of various tools bits.  Precision Screwdriver Tip Size: 0.8 mm, 1.2 mm, +1.5 mm, -2.0 mm, T 5 mm, T 6 mm	each
28	ESD Footwear Tester, Consists of: Foot Plate, Instruction Board, Instrument Fixing Clamp, Instrument, Interconnecting Cable.	each
29	PCB Cleaner, IsoPropyl Alcohol (IPA) use for cleaning electrical / electronic sensitive touch points	each
30	Desoldering Wire, length-5m, Capacity : 10 to 100 Watt, non-conductive, non corrosive & environmental friendly,	each
31	Solder Paste, weight-500gms, Melting temp-160 Celsius(approx),Superior wet-ability, Non-corrosive	each
32	Solder Flux, weight-500gms, Non-Conductive and Non-Corrosive	each
33	Solder Wire, weight-250gms,60/40 Grade, 22 Gauge,Minimum Resistance, Low melting point	each
34	PCB Holder/ PCB Stand, Should be able to hold various type of mobile PCB.	each
35	Hot Air SMD Rework Station, 650w,Voltage: 110V-220V, Noise: less than 45dB,	each
36	Hot Air Blower (Repair) Temperature Range: 100°C~500°C, Temperature Stability: ±5°C Air Flow: 120L/min (max), Temperatures and Air of blower should be continuously adjustable by knob.	each
37	Cleaning Sponge, Cleaning Steel Wire with Case: Material: Steel + Plastic, Smokeless, Non-toxic Dimensions: 6. 5 X 7. 0 Cm	each
38	Soldering Iron, 25W/230V, Low Leakage Current.round pin,Cool Grip Insulating Nylon Handle, High Quality Built Material. Make-stanley, soldron or equivalent	each
39	SMD Components Used In smartphones, Like-Resistors, Capacitors, Inductors, Transistors & others	each

40	Back Cover, Min size-5inch	each
41	Front Cover, Min size-5inch	each
42	Assembled PCBs of mobile phone	each
43	Bare PCBs Of Mobile Phone BUM PCB type	each
44	Main Parts Of Mobile- Antenna Switch, Network IC, Crystal Oscillator, RX Filter, V.C.O, TX Filter, ROM, RAM, Flash IC, Power IC, Charging IC, RTC (Real Time Clock), Logic, Audio IC, PA (Power Amplifier), Connectors, Key Pad, Microphone, Camera Lens, Display	each

\*For Estimation purpose only (\*\*- Freight – Ex Ranchi)

### 2. Definitions

- "Buyer" means PREJHA Foundation
- "Bidder" means suppliers or contractors who have participated in tender
- "The Vendor" means the supplier or contractor or service provider to whom the Order is addressed.
- "The Purchase Order" means terms and conditions signed between Buyer and the Vendor governing the subject matter of this Order
- **The Goods / Services**" means the goods or services to be supplied under the Order.

### 3. Amendment of RFQ

At any time before the submission of Proposals, PREJHA Foundation may amend the RFQ by issuing an addendum in writing or by standard electronic means. The addendum shall be uploaded on the <a href="https://eprocurement.mjunction.in/EPSV2Web/org/PREJHA/home.action">https://eprocurement.mjunction.in/EPSV2Web/org/PREJHA/home.action</a> and will be binding on them. To give Bidders reasonable time in which to take an amendment into account in their Proposals, PREJHA Foundation may, if the amendment is substantial, extend the deadline for the submission of Proposals.

### 4. Bidding

### (to be solely done through portal)

### https://eprocurement.mjunction.in/EPSV2Web/org/PREJHA/home.action

- a) Offer to be submitted only on e-procurement portal. Hard copy of offer is **not required** to be submitted to PREJHA Foundation. Any offer received in Hard copy shall **not be accepted** and will stand disqualified
- b) Mode of Submission of offer: Being e-tender, offer will be solely submitted online through e-tender portal: <a href="https://eprocurement.mjunction.in/EPSV2Web/org/PREJHA/home.action">https://eprocurement.mjunction.in/EPSV2Web/org/PREJHA/home.action</a> through following Application Service Providers (ASPs) appointed by PREJHA:

M/s Mjunction Services Limited, 6thFloor, Tata Centre.43 J N Road, Kolkata – 700 071,

Contact Person: Helpdesk Officer Sumant Kumar

Choudhary 9163348104, sumant.choudary@mjunction.in

c) They may obtain further information regarding this tender from the office of PREJHA, New Nagratoli Road, Ranchi – 834001 from 10:00 hours to 17:00 hours on all working days till the date of bidding is open.

Contact Person: Shekhar Kumar, PREJHA

Contact No.: 9835932882 Email-ID: <a href="mailto:shekhar.k@parfi.org">shekhar.k@parfi.org</a>

d) Bidders are expected to adequately apprise themselves regarding the procedure and provisions available on the e-procurement portal operated/maintained by M/S. Mjunction services limited. Buyer shall not be responsible for any issues related to timely or proper uploading/submission of the bid.

### 5. Validity of Proposal

Bidders' proposals must remain **valid for a period of min** 180 days after the submission of proposal. Should the need arise, PREJHA Foundation may request Bidders to extend the validity period of their proposals. If a bidder is selected as vendor, his proposal will remain same for whole of the delivery schedule.

### 6. Submission of proposal

The Proposal as well as all related correspondence exchanged by the bidders and PREJHA Foundation, shall be only through the portal of mjunction and electronic means. The offer shall be submitted as per the instructions of tender document and as detailed in this RFQ. Price shall be furnished in the relevant price schedule only. In case of any clarification, bidder may contact the concerned contact persons at m junction Services or PREJHA as listed above

### 7. Latest updates

Latest updates on the critical dates, Amendments, Correspondences, Corrigenda, Clarifications, Changes, Errata, Modifications, Revisions, etc. to Tender Specifications will be hosted on PREJHA-mjunction webpage. Bidders to keep themselves updated with all such information. Bidders may please visit <a href="https://eprocurement.mjunction.in/EPSV2Web/org/PREJHA/home.action">https://eprocurement.mjunction.in/EPSV2Web/org/PREJHA/home.action</a> for document submission.

### 8. Technical Bid (incl. Pre-Qualification Criteria)

Sl. No	PQR Condition	Bidder Remarks
1	Have previously supplied similar	
	/electricals/electronics items to any institutional	
	buyers preferably listed private or public sector	
	companies or training enterprises within past 4	
	years. Previous PO copies will be required	
	or, authorized supplier/distributor of such goods	

Bidder should submit the prequalification documents at the portal

### 9. Financial Proposal

Financial Proposal must be submitted in the format shared in this RFQ. Financial proposal must be shared in the same format as provided else it shall be declared non-responsive.

### 10. Empanelment followed by Letter of Award

- 1. The technical bid (incl. pre-qualification criteria) will be verified by PREJHA Foundation. The Procurement System will determine the lowest financial bid including on a possible line-item basis among the technically qualified bidders.
- 2. PREJHA Foundation shall award the Empanelment Contract possibly with SOR to successful bidders and then issue the purchase order that may be deemed as a Letter of Award (LOA)for the estimated order value along with terms & Conditions governing the Award and notify the same to the bidder through email.
- 3. The selected bidder is expected to commence the assignment on the date and at the location specified in the LOA/ Contract.
- 4. If the selected bidder does not sign the Contract within the stipulated period, the LOA may be cancelled, and the next lowest bidder will be considered for award of Contract.
- 5. If at any stage in the bidding process including after bid opening or Issuance of Purchase orders pertaining to this RFQ, PREJHA believe that the Bidders do not meet the requisite Technical criteria set out in the Bid Document or delivery schedule or that the rate quoted exceeds its own estimates for the supply value, PREJHA reserves the right to cancel the tender or particular line item(s) without incurring any obligation or liability towards the tenderers.
- 6. PREJHA Foundation reserves the right to issue a part order of any 'line item' or sets of line items from BoQ in the bid to another empaneled vendor based on cost, time & quality considerations at its sole discretion. The transport cost in such cases will be on actual basis.
- 7. Purchase Orders & Delivery details Over the validity of this RFQ, purchase orders with specified quantity & delivery details would be issued as per requirements
- 8. Delivery time is the essence of this order and must be strictly adhered to. If the vendor fails

to deliver the goods in time, the Buyer may, at its sole discretion:

- Treat the order as cancelled at any time and recover any loss or damage from the vendor:
- purchase the goods ordered or any part thereof from other sources on the vendor's
  account, in which case, the Vendor shall be liable to pay the Buyer not only the
  difference between the price at which such goods have been purchased and the price
  calculated at the rate set out in this order, but also any other loss or damage the Buyer
  may suffer;

### 11. Indicative Delivery Schedule

• Goods to be delivered at our Gurukul as per following as needed:

Sl. No	Delivery Location	Delivery Schedule
1	Kaushal College, Latehar	
2	Kaushal College, Jamtara	
3	Kaushal College, Udhwa, Sahibganj	
4	Kaushal College, Ranchi	
5	Kaushal College, Simdega	
6	Kalyan Gurukul, Sahibganj	Within 15 days of
7	Kalyan Gurukul, Bedo	signing the contract
8 Kalyan Gurukul, Ramgarh		
9 Kalyan Gurukul, Giridih		
10	Kalyan Gurukul, Godda	
11	Kalyan Gurukul, Khunti	
12	Kalyan Gurukul, Kanke1	
13	Kalyan Gurukul, Chatra	

### 12. Payment Terms

- a. 100% within 60 days of delivery on submission of invoice & delivery challan for each unit. If the vendor delivers goods within 7 days of order confirmation, 100% payment will be done within 45 days.
- b. If a vendor fails to deliver the goods as per the delivery schedule. PREJHA foundation is entitled to delay payment by 2 days for each day delay in delivery. If such delay extends beyond 7 days, a suitable penalty would be imposed.

### 13. Unloading

- a. Unloading is in Vendor's scope, cost & arrangement will be borne by Vendor.
- b. The risk of all materials till receipt at location will be in vendor's scope.

### 14. Quality of goods and services.

The Vendor should warrant to PREJHA that:

- The Goods and Services would conform in all respects to the Order and to recognized Indian or equivalent standards and codes (where applicable) and be at the complete satisfaction of Buyer.
- The said good/services processed and delivered by the Vendor shall be made from good quality bought out components/materials, as acceptable to the Buyer and it should have standard/excellent workmanship and fit for their intended purpose.

### 15. Warranty/ Guarantee

- a) The said goods/services delivered by the Vendor should be identical to the sample/specification given by the Vendor.
- b) Where the said goods/services delivered by the Vendor to the Buyer is according to sample as well as certain specification/description, if any, the said goods/services processed and delivered, shall match not only with the said sample, but also with the said specification/description.
- c) If deficiency is identified before or during the transfer of risk or during the Guarantee/warranty Period, the Vendor must at its own expense and at the discretion of the Buyer either repair the deficiency or provide re-performance of the Services or replacement of delivery. This provision also applies to delivery subject to inspection by sample test. The discretion of the Buyer shall be final.

### 16. Inspection

- a) All materials supplied against the order should conform strictly to the specifications laid down by the Buyer, and should be new, merchantable quality, fit for their intended purpose and should be in line with "Quality Assurance Plan", if any, which must be approved in advance by the Buyer. All such materials will be subject to inspection and approval by the Buyer, either at the Vendor's premises and/or at the place of delivery indicated by the Buyer.
- b) The Buyer reserves the rights to inspect the material at any stage during manufacture or supply and reject the same if found defective or not in conformity with the specifications or not fit for their intended purpose without invalidating the remainder of the order, if so desired by the Buyer.
- c) All rejected material from the Buyer's site store shall be removed by the vendor at their own cost positively within 15 days from the date of rejection note / intimation issued by the Buyer to them. In case of any failure to remove the same by the vendor within the stipulated period, the Buyer shall have all rights to remove the rejected materials/goods from their premises and discard it. Any cost on this account would be debited to the vendor's account.
- d) The Buyer under no circumstances will be liable or held accountable for any damage, loss, deterioration of the rejected materials/goods for discarding the material/goods, or for any value for it.

### 17. Damage or loss in transit

- a) Subject to the terms of the Order, the Vendor undertakes at its own expense to replace goods lost or damaged in transit.
- b) The delivery will not be deemed to have taken place until replacement items are delivered to the satisfaction of the Buyer.

### 18. Ownership and risk

Subject to the terms of the delivery and without prejudice to PREJHA Foundation's other rights under the Conditions of the Order:

- a) Ownership in the Goods shall pass to PREJHA on delivery and acceptance.
- b) Risk in the Goods shall pass to PREJHA on delivery, save where the Order includes installation, in which case risk shall not pass to PREJHA until completion of the installation work.

### 19. Fraud/Corruption

PREJHA Foundation requires that the bidders participating in the selection process adhere to the highest ethical standards, both during the selection process and throughout the execution of the Contract.

PREJHA Foundation will terminate the Contract, if already awarded and will declare the bidder ineligible, either indefinitely or for a stipulated period, to be awarded a Contract, if at any time it determines that the bidder has in contravention to the undertaking given in the Bid document and/or contract, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for, or in executing, a Contract as enshrine in the undertaking in bidding document and contract.

### 20. Conflicting relationships

Bidder has an obligation to disclose as part of the bid document any situation of actual or potential conflict that impacts their capacity to serve the best interest of PREJHA Foundation, or that may reasonably be perceived as having this effect. Failure to disclose the said situations may lead to the disqualification of the bidder or the termination of its Contract

### 21. Jurisdiction

The disputes if any between the parties shall be subject to the exclusive jurisdiction of the courts in Ranchi alone.

# **STANDARD FORMS**

TECH FORMS	FORM NAME	Mention list of all supporting documents attached (if any)
TECH-1	Letter of proposal submission	Pls scan & attach
Pancard	Pan Card	Pls scan & attach
GST Return	Latest GST return document	Pls scan & attach
PQ	Pre-Qualification Document	Pls scan & attach

### Form Tech 1: Letter

# (On Bidder's Letter-head) Letter of Proposal Submission

To, Executive Director

PanIIT Alumni Reach For Jharkhand Foundation Kalyan Complex, Balihar Road, Morabadi, Ranchi - 834008, Jharkhand

We, the undersigned, offer to supply Smartphone assembly setup items for PREJHA Foundation, in accordance with your Request for Quotation dated 27-01-2024. We are hereby submitting our proposal, which includes this Technical Proposal, and the Financial Proposal as indicated

We undertake the total responsibility for supply of the goods, if awarded to us.

We hereby declare that all the information and statements made in this proposal are true and accept that any misrepresentation contained in it may lead to our disqualification.

We understand that **PREJHA Foundation** is not bound to accept any proposal it receives.

We further state that we understand that PREJHA Foundation will terminate the Contract, if already awarded and will declare the bidder ineligible, either indefinitely or for a stipulated period, to be awarded a Contract, if at any time it determines that the bidder has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for, or in executing a Contract

Yours faithfully,
Authorized Signatory:
Name and Title of Signatory[In full and Designation]:

Address:

Name of Bidder:

# Form Fin1: Financial Bid Proforma

	TENDER PROFORMA for Commercial						
	PREJHA Reference No						
	Name of Bidder						
SN	Item Description	Estimat ed Qty	Unit Rate	Estimated Value	Tax %	Tax	Freight
1	DC Power Supply Digital 24W DC Power Supply should have: 15V, 2Amp Variable Voltage and Current Power Supply, Transformer Based, Digital display for Voltage and Current separately, Short circuit and overload protection, Connectivity: 2 SATA Cables	10					
2	DC Power Supply Digital 90W DC Power Supply should have: 48V, 2Amp Variable Voltage and Current Power Supply, Transformer Based, Digital display for Voltage and Current separately, Short circuit and overload protection, Connectivity: 2 SATA Cables	10					
3	Wire Strippers, 0.08-10 mm2	50					
4	PCB Testing Jig	10					
5	Automatic Compression Machine	2					
6	Automatic Screwing Machine Hand held screwing machine should have LED light, Forward & reverse button, Magnetizer, Charging indicator, Micro type-C cable alongwith following spectifications: No. of Bits: 20nos., No Load Speed: 280rpm, Manual Torque: 2N.m, Electric Torque: 0.25-0.35N.m, Weight of electric screwdriver: 55g, Battery	10					

	type: Lithium Ion rechargable, Battery Voltage: 3.7V, Battery Capacity: 260mAh, Charging time: 45min.				
7	File	20			
8	Double Sided Tape	20			
9	Insulation Tape	20			
10	Mobile Opener	20			
11	Magnifying Lamp Should have magnification minimum upto 25 times alongwith inbuild LED lights.	10			
12	BGA Kit This stencil solder template should have min. 18 different type of stencils mainly used for mobile & other BGA reballing. BGA reballing stencil should made of premium metal material.	10			
13	Ultrasonic Cleaner (200ml)	50			
14	Multimeter	20			
15	Line Tester	40			

16	ESD Wrist Band Adjustable wrist strap size, ground wire should rotate 360 degree to provide flexible positionD, etachable ground wire.	60			
17	ESD Mat, 100% Static Dissipative	10			
18	ESD Tester	10			
19	ESD Wrapper,100% Static Dissipative,	50			
20	ESD Slippers, 100% Static Dissipative	50			
21	ESD Gloves, 100% Static Dissipative,	50			
22	ESD Coat, 100% Static Dissipative, made of fabric consisting of Polyester, Cotton and Conductive fibers, Size-?	50			
23	ESD Safe Brush, static dissipative, used in cleaning delicate circuit boards	50			
24	Tweezers, material- stainless steel, anti magnetic	60			
25	Screwdriver Set for Smartphone repairing, should consist of min. 8 screwdrivers, 2 Opener,1 Magnifier	20			
26	Torque Screwdriver Set Fixed Precision Torque Screwdriver for Mobile Phone Repair. Fix torque to prevent screw slippage, and sound a prompt when tightening screws. Automatically idle when reaching a fixed torque value, without damaging the screw column chip/circuit board. Overall Length: approx 180mm. Consist of various tools bits.	10			
27	Precision Screwdriver Tip Size: 0.8 mm, 1.2 mm, +1.5 mm, -2.0 mm, T 5 mm, T 6 mm	20			
28	ESD Footwear Tester, Consists of : Foot Plate, Instruction Board, Instrument Fixing Clamp, Instrument, Interconnecting Cable.	10			

29	PCB Cleaner, IsoPropyl Alcohol (IPA) use for cleaning electrical / electronic sensitive touch points	50			
30	Desoldering Wire, length-5m, Capacity: 10 to 100 Watt, non-conductive, non corrosive & environmental friendly,	50			
31	Solder Paste, weight-500gms, Melting temp- 160 Celsius(approx), Superior wet-ability, Non- corrosive	30			
32	Solder Flux, weight-500gms, Non-Conductive and Non-Corrosive	50			
33	Solder Wire, weight-250gms,60/40 Grade, 22 Gauge,Minimum Resistance, Low melting point	50			
34	PCB Holder/ PCB Stand, Should be able to hold various type of mobile PCB.	40			
35	Hot Air SMD Rework Station, 650w, Voltage: 110V-220V, Noise: less than 45dB,	10			
36	Hot Air Blower (Repair) Temperature Range: 100°C~500°C, Temperature Stability: ±5°C Air Flow: 120L/min (max), Temperatures and Air of blower should be continuously adjustable by knob.	10			
37	Cleaning Sponge, Cleaning Steel Wire with Case: Material: Steel + Plastic, Smokeless, Non-toxic Dimensions: 6. 5 X 7. 0 Cm	60			
38	Soldering Iron, 25W/230V, Low Leakage Current.round pin,Cool Grip Insulating Nylon Handle, High Quality Built Material. Make- stanley, soldron or equivalent	60			
39	SMD Components Used In smartphones, Like- Resistors, Capacitors, Inductors, Transistors & others	50			
40	Back Cover, Min size-5inch	50			
41	Front Cover, Min size-5inch	50			
42	Assembled PCBs of mobile phone	40			
43	Bare PCBs Of Mobile Phone BUM PCB type	40			
44	Main Parts Of Mobile- Antenna Switch, Network IC, Crystal Oscillator, RX Filter, V.C.O, TX Filter, ROM, RAM, Flash IC, Power IC, Charging IC, RTC (Real Time Clock), Logic, Audio IC, PA (Power Amplifier), Connectors, Key Pad, Microphone, Camera Lens, Display	10			

<sup>\*</sup>For Estimation purpose only (\*\*- Freight – Ex Ranchi)