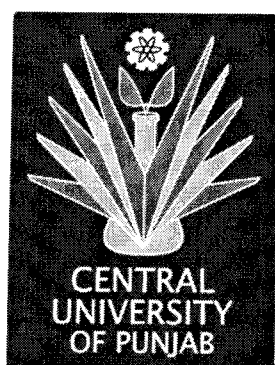


CENTRAL UNIVERSITY OF PUNJAB

Established vide Act No. 25 (2009) of Parliament

Tender No.: P-36(2016-17)



Tender Notice for Purchase of Specimens and Minerals Kit

(Two Bid System)

Release Date : July 14, 2016

Last Date : August 04, 2016; 3:00P.M.

City Campus, Mansa Road, Bathinda- 151001,
E-mail: registrar@cup.ac.in, Tel: 0164-2864155,

Central University of Punjab, Bathinda

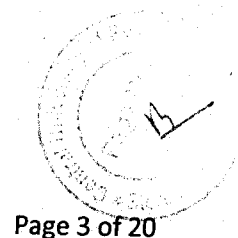
Central University of Punjab invites sealed tenders from Reputed Manufacturers (OEM)/Authorized Dealers for supply of *Specimens and Minerals Kit*.

Tender Notice Number	:	P-36(2016-17)
Release Date of the Tender	:	July 14, 2016
Last date for the submission of Tender	:	August 04, 2016; 3:00P.M.
Opening date of Tender	:	To be notified seperately (In case tender opening day declared holiday for any reason the tender will be opened on next working day at same time.)
Name and Address of the University	:	Registrar, Central University of Punjab, City Campus, Mansa Road, Bathinda – 151001, Punjab, India.
Tel.	:	0164-2864155
E-Mail Address	:	registrar@cup.ac.in
Earnest Money Deposit (EMD)	:	Rs. 6,400/- drawn in favour of Central University of Punjab, Bathinda in the shape of Demand Draft only.

Note: Offers without Tender Fee & EMD shall not be entertained. The bidders registered with NSIC are exempted from submission of Tender Fee & EMD.

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Annexure-A

GUIDELINES FOR PREPARATION OF TENDER

- 1 Blank Tender Forms for the items along with details can be downloaded from www.cup.ac.in or www.cup.edu.in. The non-refundable tender fee must be accompanied with tender.
- 2 If bidder wants to bid more than one model. Separate tender complete in all respects should be submit for the different model.
- 3 Tender fee along with Earnest Money Deposit (EMD) and all other necessary documents should be submitted for the tender. The main envelop should super- scribe: ***"Tender for Specimens and Minerals KitLast date of submission August 04, 2016; 3:00P.M."***.
- 4 The proposals shall be submitted in two parts, viz. **Technical bid and Financial bid** in two separate sealed envelopes (with respective marking super-scribed in bold).
- 5 The first envelope (envelope 1) marked **"Technical bid"** should include the technical specifications. The first envelope should not contain any cost information whatsoever and place all relevant documents for the eligibility and technical compliance.
- 6 The second envelope (envelope 2) marked **"Financial bid"** should contain the detailed price offer in prescribed format.
- 7 Both the sealed envelopes Technical bid and financial bid should be placed in a bigger sealed cover. The top of cover must also contain Name and Address of the tenderer, telephone and other contact details for further correspondence.
- 8 Financial bid and Technical compliance sheet for each instrument should be strictly as per tender format, and signed on each page.
- 9 Blank Tender Forms for the above items along with details can be downloaded from www.cup.ac.in or www.cup.edu.in. The non-refundable tender fee must be accompanied with tender.
- 10 Tenders must accompany a copy of the ***"General Financial Terms and Conditions"*** section of this document, signed and stamped on each page indicating that they agree to these.
- 11 Last date of submission of tender along with requisite fee, EMD and all documents is **August 04, 2016**.
- 12 The DD for tender fee, EMD or any other must be drawn in favour of Central University of Punjab, Bathinda.
- 13 The Tenders/Quotations will be opened at the University campus as per given schedule if the Tender opening day happens to be official Holiday then the tenders will be opened on the next working day, in the presence of bidders whosoever may wish to be present.

14 The tenders received late, without tender fee, without earnest money, without required documents or incomplete in any respect / Misleading will out rightly be rejected. Electronic submission of documents (by facsimile, email and so on) is not acceptable.

15 If the supplier/firm is manufacturer/authorized dealer/sole distributor of any item, the certificate to this effect should be attached.

16 **Availability of Spares/Consumables:** The tenderer must give certificate duly signed and stamped by manufacturer for the availability of spares/consumables and servicing of instrument for at least 10 years. Supplier should give an undertaking that spares parts will be supplied within the specified periods as and when ordered.

17 Apart from all these terms and conditions, specific terms as specified for each instrument must also be complied.

18 The tender competing in technical evaluation will only be considered for financial evaluations. The price envelopes of others will not be considered. At second stage, financial bids of only technically acceptable offers should be opened for further evaluation and ranking before awarding the contract.

19 The financial proposal shall be opened in the presence of the tenderers or their representative who choose to attend. The prior information in this regard will be given to the qualified tenderers.

20 The printed literature and catalogue/brochure giving full technical details should be included with the technical bid to verify the specifications quoted in the tender.

21 If bidder shall not put the documents in two different envelopes as directed above, the same shall be liable to forfeit the EMD for this tender.

Annexure-B

GENERAL FINANCIAL TERMS AND OTHER CONDITIONS

1. **Prices:** Quoted prices should be firm and FOR Central University of Punjab (CUPB), City Campus, Mansa Road, Bathinda and complete break up of all taxes and duties payable by the university should be clearly defined otherwise it will be presumed that the rates quoted are inclusive of all these charges and nothing extra will be paid. **Special Discount/ Rebates, whichever applicable to an educational Institution, may also be specifically indicated.**
2. **Payment terms:** 100% payment will be made through RTGS/by cheque after delivery, installation and demonstration of goods in good condition and satisfactory inspection report of the Indenter.
3. **Parts of Equipment:** Where the equipment is composed of several subunits/components, the rate should be quoted for each subunit/ component. The University reserves the right to increase or decrease the number of subunits/ components and number of equipment according to its requirements. The rates in ambiguous terms will render the bids liable to rejection. The words "Not quoting" should be clearly written against any item of equipment for which the tenderer is not quoting.
4. **Taxes:** All kinds of Statutory Taxes will be paid by the purchaser on the basis of supportive Documentary Evidence.
5. **Validity:** Tenders/Quotations should be valid for three months from the last date of its submission.
6. **Opening of Tenders:** Tenders complete in all respect will only be considered. Tenders/Quotations will be opened at the University campus as per given schedule, if the Tender opening day happens to be official Holiday then the tenders will be opened on the next working day, in the presence of bidders whosoever may wish to be present.
7. **Incomplete or Misleading Tenders / Quotations:** Tenders/Quotations duly sealed and sent only by post/courier will be considered. Tenders/Quotations received late or incomplete in any respect/ misleading without earnest money& without required documents will out rightly be rejected. No responsibility with regard to postal delays due to any reason whatsoever will be accepted.
8. **Right to reject:** The CUPB reserves right to accept/reject any or all the Tenders/Quotation sat any time without assigning any reason.
9. **Delivery Schedule:** Delivery schedule should be clearly mentioned in the Tenders/Quotations. In case of imported item, the supplier their Indian agent will be responsible for delivery of the material from the place of discharge of material to final point.
10. **Installations:** Installations and Training of the equipment under purchase, if any, will be of free of cost.
11. **Penalty for non/late delivery of material:** If the supplier fails to deliver the material/equipment within the stipulated delivery period of the Supply/Purchase order/contract the same is liable to pay penalty charges at 0.5% of the cost of undelivered goods/ services per week, not exceeding maximum limit of 10% of the cost of complete unit of undelivered equipment/material so delayed.
12. **Custom Duty & Excise Duty Exemption:** The University being a public funded and non-commercial research institution is exempted from paying Custom Duties vide notification no. 51/96-custom and the provision of the said notification will apply. University will provide DSIR certificate,

Custom Duty Exemption Certificate (CDEC), road permit and other necessary certificates. Since the University does not have any Clearing Agent, the Supplier is requested to get the consignments cleared on behalf of the University. The admissible Custom Duty will be reimbursed to the Supplier on production of documentary evidence of payment of Custom Duty and also satisfactory installation report from the Indenter. The equipment should not be taken to warehouse/ Go-down and should come straight from the nearest Airport to the University. In case of inspection by the Custom, legible seal of Custom Officials should be present along the tearing of consignment.

13. Security Deposit:

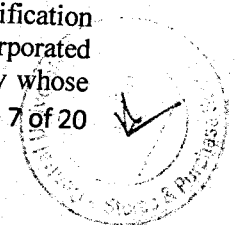
- a. Firm/bidder/Supplier is required to submit security deposit @10% of ordered value in the shape of FDR/PBG favouring **Central University of Punjab, Bathinda** within 30 days from the date of acceptance of Purchase Order. Failure to submission of security deposit in the stipulated time will lead to forfeiture of EMD.
- b. On faithful execution of the Supply/Work order/contract on all respects, including warranty period, the security deposit of the contractors/supplier shall be released.
- c. In the event of default on your part in faithful execution of Supply/Work order/contract, the security deposit shall be forfeited by an order of the Registrar of the University. The forfeiture of security deposit shall be without prejudice to any other right arising or accruing to the university under relevant provisions of the Supply/Work Order/contract like penalty/damages for delay in delivery provisions under Negligence & default clause including suspension of business dealings with the university for a specific period.

14. Warranty/ Guarantee:

- a) The supplier/contractor shall be responsible to replace free of cost with no transportation and insurance expenses to the University up to the destination of material equipment, the whole or any part of the material which under normal and proper use and maintenance, proves defective in material or workmanship within 18 months from the date, it is taken over by the University or 12 months from the date of installation whichever expires earlier, provided the University gives prompt written notice of such defects to the supplier/contractor. Such replacement shall be effected by the supplier/contractor within a reasonable time not exceeding 6 months of the intimation of defects. Supplier's/Contractor responsibility arising out of supply of material or its use whether on warranties or otherwise shall not in any case exceed the cost of correcting the defects or replacing the defective part/material and upon the expiry of the warranty period stipulated above, all such liabilities shall terminate.
- b) The above provision shall equally apply to the material so replaced/repared by the Supplier/Contractor under this clause in case the same is again found to be defective within 12 months of the replacement/repair.
- c) In case the replacement /repair of defective material is not carried out within six months of intimation of defects, the Supplier/Contractor shall have to pay interest @ 12 per cent per annum on the value of each complete operational unit of equipment beginning from the date of becoming defective up to date of its re-commissioning after replacement/repair.

15. Arbitration:

- a. In case of any question dispute or difference, between the purchaser/University and the contractor/supplier, upon or in relation to or in connection with purchase order/contract, either party may forthwith give to the other notice in writing of the existence of such question dispute or difference and the same shall be referred to sole arbitration of a nominee of the purchaser/University, who shall give a reasoned/speaking awards. The award of the sole arbitrator shall be final and binding on the parties under the provisions of the Indian Arbitration Act-1996(Amended up to date) and of the rules, there under. Any statutory amendment, modification or re-enactment thereof for the time being in force, shall be deemed to apply and be incorporated in the contract/purchase order. The sole Arbitrator shall be any officer of the University whose



name is approved by the Vice Chancellor. It will not be objectionable if the Sole arbitrator is an officer of the university and he has expressed his views on all or any of the matter in question of dispute or difference.

b. Upon every or any such reference, the cost of and incidental to the reference and award respectively shall be in the discretion of the sole arbitrator so appointed who may determine the amount there of or direct the same to be fixed as between the solicitor and client or as between party and shall direct by whom & to whom and in what manner the same is to be borne and paid.

c. The work under the contract shall, if reasonably possible continue/during the arbitration proceedings.

16. **Civil Suit Jurisdiction:** All legal proceedings in connection with this Supply/Purchase order/Contract shall be subject to the territorial jurisdiction of the local Civil Courts, as per Indian Laws, at Bathinda only.

17. **Cancellation :** The University reserves the right to cancel the Supply/purchase order as a whole or in part at any time or in the event of default on the part of the Supplier prior to the receipt of information regarding taking in hand of the manufacture of material against the Supply/Purchase order/dispatch of material to the consignee.

18. Conditional bids shall not be considered.

19. The CUPB reserves the right to increase or decrease the quantity of the tender items.

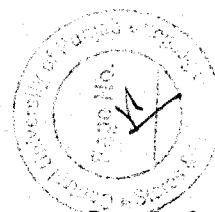
Annexure-C

TECHNICAL SPECIFICATIONS AND COMPLIANCE SHEET FOR SPECIMENS AND MINERALS KIT

Index List of Items

Sl.	Item Description	Quantity
A	Crystallography Models (Wooden)	115
B	Crystallography Models (Transparent Plastic)	20
C	Hands Specimens of Igneous Rock: (Specimen Size > 2 x 3 x 1.5 inch)	45
D	Hands Specimens of Metamorphic Rock: (Specimen Size > 2 x 3 x 1.5 inch)	38
E	Hands Specimens of Sedimentary Rock: (Structure and texture of the specimens should be clearly visible, each one specimen)	36
F	Hands Specimens of Ore and Rock forming Minerals (Each one)	100
G	Thin sections of Igneous, Metamorphic, Sedimentary rocks and Rock forming Minerals: It should be supplied in separate plastic/wooden box for each group.	
	i) Rock slides (thin sections)	45
	ii) Mineral slides (thin sections)	20
H	Thick (Polished) sections of Ore minerals: In a plastic or wooden box	15
I	Mineral Test Kits	See the List
J	Hands Specimen of Fossils and slides of microfossils	See the List
K	Plastic Tray (white color, size - 4"x4"x1.5") for hands specimens and models display	350
L	List of Structural and landform Models (Wooden/plastic):	50

Detailed list with specification is given below:



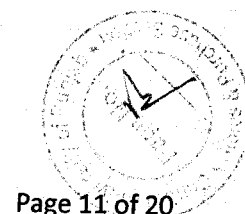
Specification and Quantity**A. Crystallography Models (Wooden) – 115 nos.**

Sl. No.	Specification		Quantity	Sl. No.	Specification		Quantity
Dana no.	Name (Isometric System)			Dana no.	Name		
1	100	cube	1	43	204	Combination(Octahedrite)	1
2	111	Octahedron	1	44	205	Ditetragonal Pyramid	1
3	112	Dodecahedron	2	45	217	Schellite	1
4	122	Tetrahexahedron	1	46	223	Wulfenite	1
5	113	Combination	1	47	225	Sphenoid	1
6	114	Combination	1	48	226	Tetragonal scalenohedron	1
7	115	Combination	1	49	231	Tetragonal trapizohedron	1
8	116	Combination	1	50	239	2nd order prism	1
9	117	Combination	1	51	240	Dihexagonal prism	2
10	118	Combination	1	52	242	1st order pyramid	1
11	119	Combination	1	53	243	2nd order pyramid	1
12	120	Combination	1	54	244	Dihexagonal pyramid	2
13	121	Combination	1	55	245	Beryl	1
14	128	Trisectahedron	2	56	258	Hexagonal Trapezohedron	1
15	129	Combination	1	57	263	Positive Rhombohedron Calcite	1
16	130	Combination	1	58	264	Negative Rhombohedron Calcite	1
17	131	Trapezohedron	2	59	267-271	Calcite (any 2nos.)	2
18	135	Combination	1	60	272-273	Gmelinite (any 1 no)	1
19	137	Combination	1	61	278	Scalenohedron	2
20	139	Hexoctahedron	2	62	279	Calcite	1
21	141	Combination	1	63	284	Corondum	1
22	147	Pyritohedron	1	64	291-294	Tourmaline (any 2nos.)	2
23	150	Cube + Pyritohedron	1	65	296	Diopase	1
24	151	Octahedron +Pyritohedron	1	66	301-302	Trigonal Trapezohedron	2
25	153	Deploid	1	67	780	Calcite	1
26	159	Positive Tetrahedron	1	68	303	Quartz	1
27	162	+ve & -Ve Tetrahedron	1	69	305-306	Quartz	2
28	163	Combination	1	Orthorhombic System			
29	166	Combinatoin	1	70	316	Three pinacoids	1
30	169	Hexatetrahedron	1	71	317	Prism & Basal Pinacoids	1
31	170	Tetrahedrite	1	72	318	Two Prism & Basal pinacoid	1
32	174	Right Pentagonal Icositetrahedron	1	73	319	Macro dome and Brachy Pinacoids	1
Tetragonal and Hexagonal System				74	320	Brachydome & Macro Pinacoids	1
33	188	1st order prism	1	75	321	Pyramid	1
34	189	2nd order prism	1	76	326	Barite	1
35	190	Combination	1	77	331	Sulphur	1
36	191	Ditetragonal Prism	1	78	332	Sulphur	1
37	193	Combination(Zircon)	1	79	333	Staurolite	1
38	194	Combination(Zircon)	1	80	334	Topaz	1
39	195	Combination(Apophyllite)	1	81	342	Struvite	1
40	196	2nd order pyramid	1	82	344	Epsomite	1
41	199	Combination(Vesuvianite)	1	83	925	Andalusite	1
42	203	Combination(Apophyllite)	1	84	1044	Celestite	1

Sl. No.	Specification		Quantity	Sl. No.	Specification		Quantity
	Dana no.	Name (Monoclinic System)			Dana no.	Name	
85	353	Orthocline & basal pinacoid	1	96	1054	Gypsum	1
86	354	Prism & basal pinacoid	1	97	1055	Gypsum	1
87	355	Orthodome&clinopinacoid	1	98	1033	Borax	1
88	357	Pyroxene	1	Triclinic System			
89	358	Pyroxene	1	99	379	Triclinic Pinacoid	1
90	359	Pyroxene	1	100	381	Rhodonite	1
91	360	Orthoclase	1	101	382	Rhodonite	1
92	361	Orthoclase	1	102	383	Albite	1
93	362	Orthoclase	1	103	385	Axinite	1
94	363	Epidote	1	104	939	Poloma	1
95	370	Tartaric acid	1	Total Numbers of Wooden Model			
							115

B. Crystallography Models (Transparent Plastic) – 20 nos.

Sl. No.	Dana no.	Name	Quantity
1	100	Cube	1
2	111	Octahedron	1
3	159	Positive Tetrahedron	1
4	162	Positive +Negative Tetrahedron	1
5	192	1 st order pyramid	1
6	197	Combination	1
7	214	3 rd order Prism (Tetragonal)	1
8	215	3 rd order Pyramid (Tetragonal)	1
9	225	Sphenoid	1
10	238	1 st order prism (Hexagonal)	1
11	242	1 st order pyramid (Hexagonal)	1
12	244	Dihexagonal pyramid	1
13	251	3rd order Prism (Hexagonal)	1
14	252	3rd order Pyramid (Hexagonal)	1
15	263	Positive Rhombohedron Calcite	1
16	278	Scalenoledron	1
17	317	Prism & Basal Pinacoids	1
18	321	Pyramid	1
19	353	Orthocline & Basal Pinacoids	1
20	380	Axinite	1
Total Numbers of Transparent Plastic Model			20



C. Hands Specimens of Igneous Rock: (Each one, Specimen Size > 2 x 3 x 1.5 inch, 45 nos.)

Sl. No.	Name	Sl. No.	Name	Sl. No.	Name
1	Amphibolite	16	Unakite	31	Nepheline Syenite
2	Dunite	17	Gabbro	32	Sodalite Syenite
3	Hornblendite	18	Peridotite (Bronzite)	33	Dacite
4	Pyroxinite	19	Dolerite	34	Diorite
5	Schrol Rock	20	Dolerite Porphyry; With White Feldspar Phenocrysts	35	Diorite Porphyry With Hornblende And Epidote
6	Serpentinite	21	Pegmatite (Corundum Bearing)	36	Basalt
7	Ankaramite	22	Pegmatite; Pink	37	Komatite
8	Anorthosite	23	Pegmatite; White	38	Amygdaloidal Basalt
9	Aplite	24	Granite; Grey; Coarse Grained	39	Basalt with Zeolites
10	Felsite	25	Granite Grey; Fine Grained	40	Volcanic Tuff (Grey/Pink/Green)
11	Granodiorite	26	Granite; Pink	41	Rhyolite with Flow Structure
12	Lamprophyre	27	Granite of Porphyry with Epidote	42	Obsidian / Volcanic Glass
13	Leptinite	28	Granite With Hornblende	43	Pitch Stone
14	Norite	29	Graphic Granite; (White/pink)	44	Trap
15	Trachyte	30	Syenite	45	Andesite

D. Hands Specimens of Metamorphic Rock: (Specimen Size > 2 x 3 x 1.5 inch, 38 nos.)

Sl. No.	Name	Sl. No.	Name	Sl. No.	Name
1	Biotite Kyanite Schist	14	Hornblende Gneiss	27	Gondite
2	Chlorite Schist (With Magnetite)	15	Sillimanite Cordierite Gneiss with Garnet	28	Serpentine Marble ; Ophicalcite
3	Garnet Mica Schist	16	Charnockite Gneiss	29	Khondalite
4	Tremolite Actinolite Schist	17	Synenite Gneiss with Nepheline	30	Hornblende Granulite
5	Hornblende Schist	18	Slate	31	Charnockite Acid
6	Andalusite Schist	19	Phyllite	32	Charnockite Basic
7	Staurolite Schist	20	Fuchsite Quartzite	33	Hypersthene Granulite
8	Graphite Schist	21	Magnetite Hematite Quartzite	34	Mylonite
9	Quartz Sericite Schist	22	Quartzite White	35	Migmatite
10	Talc Schist (With Mica/ Kyanite)	23	Banded Hematite Jasper Quartzite	36	Rock with superimposed folding
11	Augen Gneiss	24	Marble ; Black Striped	37	Tight Folding Rock
12	Garnet Mica Gneiss	25	Marble Pink	38	Hornfels Rock
13	Banded Gneiss	26	Marble White		

E. Hands Specimens of Sedimentary Rock: (Structure and texture of the specimens should be clearly visible, each one specimen, Total nos. 36)

Sl. No.	Name	Sl. No.	Name	Sl. No.	Name
1	Greywackes	13	Limestone reddish	25	Iron nodules
2	Carbonaceous shale	14	Sandstone coarse grain	26	Pseudo-structure (Halite)
3	Coal anthracite	15	Sandstone fine grain	27	Convolute Structure
4	Coal Banded	16	Sandstone grey	28	Flame structure
5	Fire clay	17	Sandstone pink	29	Burrow mark
6	Golden Oolite	18	Shale grey	30	Fine laminated shale/siltstone
7	Grit	19	Shale with fossil	31	Graded bedding
8	Bauxite	20	Marlstone	32	Cross lamination
9	Limestone algal	21	Quartz arenite	33	Stromatolite

10 Limestone banded	22 Rock salt	34 Ripple mark
11 Limestone coralline	23 Phosphatic nodules	35 Ripple mark with rain imprint
12 Limestone fossiliferous	24 Manganese nodules	36 Stalactite / Stalagmite

F. Hands Specimens of Ore and Rock forming Minerals (Each one): Total Nos. 100

Sl. No.	Name and Description	Sl. No.	Name and Description	Sl. No.	Name and Description
1	Actinolite	35	Covellite	69	Mn-Ore Botroidal
2	Agate-Banded	36	Diopside	70	Muscovite Books
3	Agirine	37	Dolomite: Grey Crystalline	71	Nephelene
4	Amazon Stone	38	Epidote: Crystals	72	Nickeline / Niccolite
5	Amethyst Crystal Agg.	39	Feldspar (Labradorite)	73	Olivine
6	Andalusite	40	Feldspar: Microcline - White	74	Opal
7	Anhydrite	41	Feldspar: Moonstone	75	Pentalandite
8	Anthophyllite	42	Feldspar: Orange (Orthoclase)	76	Pitchblend
9	Apophyllite Green Crystal Agg.	43	Feldspar: Perthite	77	Phosphatic Nodules
10	Apophyllite: White	44	Feldspar: Plagioclase - Grey	78	Phlogopite
11	Aragonite	45	Flint: Black	79	Pyrite Cube
12	Arsenopyrite	46	Fluorite	80	Pyrites: Crystals
13	Asbestos-Amphibole: Grey	47	Garnet: Trapezohedral Crystals	81	Pyrrhotite
14	Asbestos-Chrysotile	48	Gedrite	82	Quartz: Rosy
15	Barytes (Reddish/Other than Color but not white)	49	Geode	83	Red Ochre
16	Bauxite: Pisolitic	50	Gypsum: Swallow-Tail Twin Crystals	84	Rhodonite
17	Bismite	51	Gypsum Crystals: Selenite	85	Rocksalt
18	Bentonite	52	Haematite: Micaceous Iron Ore (Specular Iron Ore)	86	Staurolite Penetration
19	Bloodstone	53	Haematite Jasper: Banded	87	Twining
20	Bornite	54	Halite	88	Staurolite
21	Calcite: Bluish	55	Heulandite	89	Serpentine: Banded
22	Calcite: Pink	56	Hornblende: Greenish	90	Steatite: Dark Grey
23	Calcite: Translucent	57	Hypersthene	91	Stibnite: Accicular
24	Chalcedony: (Preferably Bluish)	58	Iceland Spar	92	Stilbite
25	Chalcocite	59	Illimanite	93	Talc: Greenish: Flaky
26	Chert: Banded	60	Jade	94	Thomsonite
27	Chlorite	61	Kaollin	95	Trimolite
28	Chromite in Dunite/Serpentine	62	Kyanite: Bladed Blue	96	Uvarovite
29	Cinnabar	63	Kyanite: Bladed Grey	97	Vermiculite
30	Cordierite	64	Lepidolite	98	Wurtzite
31	Corundum - Ruby	65	Limonite: Radiating or Fibrous	99	Zeolite
32	Corundum: Bluish	66	Malachite	100	Zinnwaldite
33	Corundum: Pink: Granular	67	Mesolite		Zircon: Small Crystals
34	Corundum Red (Pebble)	68	Molybdenite		

*Agg. - Aggregates

G. Thin sections of Igneous, Metamorphic, Sedimentary rocks and Rock forming Minerals: It should be supplied in separate plastic/wooden box for each group.

i) Rock slides (45 Nos. thin sections)

Sl. No.	a. Igneous Rock	Sl. No.	b. Metamorphic Rocks	Sl. No.	c. Sedimentary Rocks
1	Amphibolite	16	Augen Gneiss	31	Greywackes
2	Dunite	17	Biotite Kyanite Schist	32	Oolitic Limestone
3	Pyroxinite	18	Chlorite Schist	33	Limestone
4	Anorthosite	19	Banded Gneiss	34	Limestone Fossiliferous
5	Aplite	20	Khondalite	35	Sandstone
6	Granodiorite	21	Quartzite	36	Shale
7	Gabbro	22	Andalusite Schist	37	Quartz Arenite
8	Dolerite	23	Hornblende Gneiss	38	Micrite
9	Nepheline Syenite	24	Staurolite Schist	39	Biomicrite
10	Basalt	25	Charnokite	40	Biosparite
11	Phenocryst Basalt	26	Mylonite	41	Mudstone
12	Granite	27	Hypersthene Granulite	42	Wackestone
13	Granite Porphyry	28	Sillimanite-Cordierite Gneiss	43	Floatstone
14	Andesite	29	Tremolite Actinolite Schist	44	Packstone
15	Rhyolite	30	Phyllite	45	Grainstone

ii) Mineral slides (20 Nos)

Sl. No.	Minerals	Sl. No.	Minerals
1	Actinolite	11	Fluroite
2	Albite	12	Kyanite
3	Amphibole	13	Microcline
4	Andalusite	14	Olivine
5	Anorthite	15	Oriented Calcite
6	Aragonite	16	Oriented Quartz
7	Bauxite (Pisolitic)	17	Orthoclase
8	Chlorite	18	Serpentine
9	Cordierite	19	Trimolite
10	Diopside	20	Vermiculite

H. Thick (Polished) sections of Ore minerals (any 15 Nos.): In a plastic or wooden box

Sl. No.	Minerals	Sl. No.	Minerals	Sl. No.	Minerals	Sl. No.	Minerals
1	Chalcopryrite	6	Magnetite	11	Agirine	16	Molybdenite
2	Chromite	7	Pyrite	12	Arsenopyrite	17	Pentalandite
3	Galena	8	Pyrrhotite	13	Bornite / Malachite	18	Zinnwaldite
4	Hematite	9	Sphalerite	14	Chalcocite / Covellite	19	Nickeline / Niccolite
5	Illmenite	10	Stibnite	15	Cinnabar	20	Pitchblend

NB: Hand specimens or thin sections listed in C, D, E, F, G, and H should not be supplied in replication with two different names as there may be some minerals present in different rock.

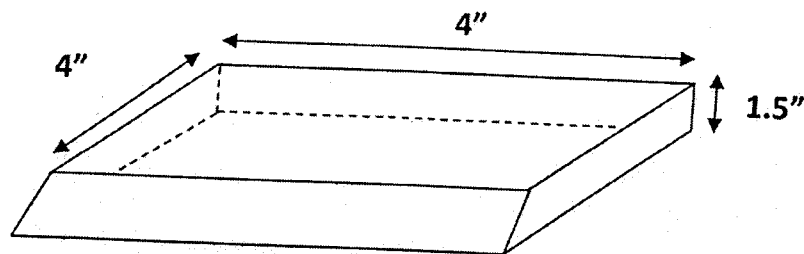
I. Mineral Test Kits

- a) Goniometer (Steel) - **3 nos.**
- b) Mineral test kit (Streak plate, Glass and Two metal plates, Small knife, Small Magnate, Metal Nail and hand lens ~5X, 2/3inch diameter) – **5 Nos.**
- c) Mohs hardness scale (Minerals + Test kit) – **5 Nos.**
- d) Streak plate (2"x 2") – **12 Nos.**
- e) Foldable magnifying lenses – **5 Nos.**

J. Hands Specimen of Fossils and slides of microfossils

- a) Any Invertebrate fossils other than Hemiaster, Terebratula, Conus, Eocyprea, Lucina, Physa, Cidaris, Isastrea, Rhynchonella, Cardita, Bivalve, Belemnite, Stigmatophyquit, Montveltia, Turritella, Natica – **10 Nos.**
- b) Cast or Mold of fossils or trace fossils – **5 Nos.** (Any types)
- c) Trace fossils – **7 nos.** (Plant and animals)
- d) Vertebrate fossils – **5 nos.**
- e) Microfossils Slides/collections – **5 nos.** (Any combinations, with least replications).

K. Plastic Tray (white color, size -4"x4"x1.5") for hands specimens, models display:
Quantity - 350 Nos.



Inclined front side for gluing label

L. List of Structural and landform Models (Wooden/plastic): (with approximate size)

Sl.No.	Model Description	Qty.	Sl.No.	Description	Qty.
I. STRIKE, DIP, PITCH AND ESCARPMENT			IV. FAULT MODELS: Size: 15 x 15 x 11 cm		
1	Dip, Strike and Escarpment in Inclined strata. Size: 20 x 20 x 7.5 cm.	1	21	Strike fault in inclined beds	1
2	True and Apparent Dip in inclined Strata. Size: 20 x 20 x 7.5 cm.	1	22	Dip fault in inclined strata	1
3	Strike & Dip in folded Strata (Anticline and Syncline) Size: 22 x 18 x 11 cm.	1	23	Fault across a pitching Anticline or syncline	1
4	Strike, Dip and Pitch (plunge) in Folded Strata. Size: 22 x 18 x 11 cm.	1	24	Dip fault in folded strata across a syncline or anticline	1
II. FOLDS			25	Dip fault in folded strata across a pitching Syncline or Anticline	1
5	Monoclinial fold, Size: 15 x 15 x 11 cm.	1	26	Fault across a Syncline or anticline	1
6	Symmetrical Anticline /Syncline, Size: 15 x 15 x 11 cm.	1	27	Rotational fault	1
7	Asymmetrical Anticline/Syncline, Size: 15 x 15 x 11 cm.	1	VI. MODELS FOR ENGINEERING & MINING GEOLOGY: Size: 22 x 18 x 11 cm		
8	Pitching Anticline/Syncline, Size: 15 x 15 x 11 cm.	1	28	Tunnel in vertical beds at right angles to strike	1
9	Isoclinal Anticline and syncline, Size: 22 x 11 x 10 cm	1	29	Tunnel in inclined beds along the strike	1
10	Recumbent Fold, Size: 22 x 18 x 11 cm.	1	30	Tunnel in inclined beds at right angles to strike	1
11	Fan Fold, Size: 22 x 18 x 11 cm.	1	31	Tunnel across a Syncline	1
12	Dome Fold, Size: 22 x 18 x 11 cm.	1	32	Tunnel in horizontal beds	1
13	Basin Fold, Size: 22 x 18 x 11 cm.	1	33	Tunnel across an anticline	1
14	Complex fold, Size: 22 x 18 x 11 cm.	1	VII. MODELS OF DIFFERENT FORMS OF IGNEOUS ROCK BODIES		
15	Anticlinoria / Synclinoria, Size: 22 x 18 x 11cm.	1	34	Model of stock and Boss	1
III. FAULT MODELS: Size: 22 x 11 x 10 cm			35	Model of a batholith showing apophyses and Roof pendent	1
16	Model of Normal fault	1	36	Model of Lopolith	1
17	Model of reverse fault	1	37	Model of Lacolith and Dome Mountain	1
18	Model of Ridge and Trough fault	1	38	Model of Phacolith	1
19	Model of step fault	1	39	Model of Chonolith	1
V. UNCONFIRMITY: Size: 22 x 11 x 10 cm			40	Model of an inter-formational sheet	1
20	Six models demonstrating different types of unconformity.	6	41	Model of sill (Simple & Composite) & Apophyses	1
			42	Model of a Dyke and Chilled contacts	1
			43	Model of an Intersecting Dyke	1
			44	Model of a Branching Dyke	1
			45	Model of an inter-formational Laccolith	1

Brief detail of quoted item in respect to above technical specifications:
(To be filled by Bidder and signed)

Name of the Item _____

Name of the Manufacturer _____

Make of the Item _____

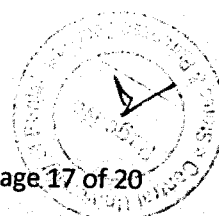
Auth. Signature with Date

Annexure-D

APPLICATION FORM

To be Filled Completely and Signed

1. Contact details of the head office of proposing firm:
 - a. Name-
 - b. Address-
 - c. Tel. No.-
 - d. Fax -
 - e. Email -
 - f. Web site (If any)
2. Name and full address of local office of proposing firm nearest to Bathinda:
 - a. Name-
 - b. Address-
 - c. Tel. No.-
 - d. Fax -
 - e. Email -
 - f. Web site (If any)
3. Name and full address of manufacturer:
 - a. Name-
 - b. Address-
 - c. Tel. No.-
 - d. Fax -
 - e. Email -
 - f. Web site (If any)
4. Name of advising bank and account number:
5. SWIFT Code:
6. PAN and TAN Number:
7. Manufacturing type (tick mark):
 - i. Imported
 - ii. Indigenous
 - iii. Both
8. Country(s) of origin:
9. Any other relevant information:



Annexure-E

DECLARATION BY SUPPLIER

"It is certified that I/we have carefully read and understood the entire general, special as well as specific terms and conditions of these documents and agree to abide by all of these. All the information and commitments provided with the quotations are truthful and binding on the firm."

Place:

Signature of Authorized Person

Date:

Designation

Seal

Annexure-M**FORMAT FOR THE SUBMISSION OF RATES – PRICE BID**

(To be submitted on the letterhead of the company/firm and put it in Envelope 2)

Item Price:

Name of the Item _____

Name of the Manufacturer _____

Make of the Item _____

Sl. No.	Particulars	Rate/Unit
1	Cost of the item (FOR Central University of Punjab, Bathinda).	
2	(__% of VAT/TAXES)	
3	Total (1+2)	

Note: Taxes and other levies, if any are to be clearly specified in the bid.

This is certified that the rates quoted above are not more than the rates charged from any other Institution/Department/Organization.

Place:**Signature of Authorized Person****Date:****Designation****Seal**

Annexure-G

CHECK LIST

(TO BE FILLED COMPLETELY & PLACED IN ENVELOPE-I)

Sr. No.	Points to be verified	Yes/ No
1	Technical specification compliance sheet	
2	EMD	
3	Tender Fee	
4	Photocopy of PAN and TAN card	
5	User list and certificates issued by clients	
6	Copy of income tax return certificate	
7	All other certificates as asked for in tender document a) Spare part availability certificate b) Certificate indicating country of manufacture c) Sales tax registration certificate d) Copy of "Eligibility Criteria and General Terms and Conditions" signed and stamped on each page	

Place:

Signature of Authorized Person

Date:

Designation

Seal

