



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

मानव संसाधन विकास मंत्रालय, भारत सरकार द्वारा स्थापित

सैक्टर-81, नॉलेज सिटी, प० ओ० मनोली, एस० ए० एस० नगर, मोहाली, पंजाब 140306

**INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH MOHALI**

(Established by Ministry of Human Resource Development, Govt. of India)

Sector-81, Knowledge city, PO-Manauli, SAS Nagar Mohali-140306, Punjab

PAN No. - AAAAI1781K GSTIN No:- 03AAAAI1781K2ZS

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CPPP/Institute Website

IISERM (1257)19/20Pur

Dated: 09<sup>th</sup> September, 2019

## **NOTICE INVITING E-TENDER**

Online tenders are invited on behalf of Director, IISER Mohali in **TWO BID SYSTEM** for the **Supply of Minerals and Rock Specimens for Museum** as per technical specification and details given below and BOQ list from the original manufacturer/supplier at CPPP i. e. <https://eprocure.gov.in/eprocure/app>. Tender documents may please be downloaded from the E-procurement portal website <https://eprocure.gov.in/eprocure/app>& Institute website [www.iisermohali.ac.in](http://www.iisermohali.ac.in).

-sd-

(Mukesh Kumar)  
Assistant Registrar (P&S)



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

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## **E-TENDER NOTICE**

Tender Ref.- IISERM(1257)19/20Pur

Dated :- 09<sup>th</sup>September, 2019

### **Critical Date Sections**

Sr.	Description	Date	Time
1.	Tender Publishing Date and time	09 <sup>th</sup> Sept, 2019	6:00pm
2.	Tender Document download start Date & Time	09 <sup>th</sup> Sept, 2019	6:00pm
3.	Bid Submission start Date & Time	09 <sup>th</sup> Sept, 2019	6:00pm
4.	Bid Submission End date and Time	30 <sup>th</sup> Sept 2019	Upto 11:00am
5.	Tender opening Date and Time	01 <sup>st</sup> October 2019	At 11:30am

Online tenders are invited on behalf of Director, IISER Mohali in **TWO BID SYSTEM** {Technical and commercial separately} for the following item(s) from the original manufacturer/supplier at CPPP i.e. <https://eprocure.gov.in/eprocure/app>. Tender documents may please be downloaded from the E-procurement portal website <https://eprocure.gov.in/eprocure/app> & Institute website [www.iisermohali.ac.in](http://www.iisermohali.ac.in). Tender fee in shape of DD/Banker Cheque of Rs 590/- (Non-refundable) and EMD of Rs 10,000/- should be submitted by DD /Banker Cheque/FDR/ Bank Guarantee in favour of the Registrar, IISER Mohali payable at Mohali. However, scanned copy of the both tender fee and EMD should be upload on website along with technical bid part. The hard copy of the same in original to be send to the address mentioned below duly superscribing the supply/work name and reference/ tender ID on the envelope and same must reach before opening the bid and if not received within due date the bid will be rejected summerly.

### **The Original EMD and Tender Fee should be sent to:**

Assistant Registrar (S&P)  
Indian Institute of Science Education and Research Mohali  
Sector-81, Knowledge City, SAS Nagar, Mohali, Punjab,  
India, Pin: 140306

**Non-receipt of original EMD and Tender Fee will lead to rejection of tender.**

**Item Details: -**

Sr.	Description	Qty. (in units)
<b>Supply of Minerals and Rock Specimens for Museum</b>		
A	Provide minimum 70 mineral specimens in steel display tray from the following list (minimum size : 5 x 7 cm) – As per ANNEXURE-A	<b>01 each</b>
B	List of important Ore mineral specimens (minimum Size: 4 x 6 cm) in steel display tray- As per ANNEXURE-A	<b>01 each</b>
C	List of important plant and invertebrate fossils in steel display tray- As per ANNEXURE-A	<b>01 each</b>
D	Provide minimum 100 rock specimens in steel display tray from the following list (minimum size: 6 x 8 cm) - As per ANNEXURE-A	<b>01 each</b>
E	<b>List of rock and mineral thin sections with slide storage box</b>	<b>---</b>
	(i) Igneous rocks: As per ANNEXURE-A	<b>01 each</b>
	(ii) Sedimentary rocks: As per ANNEXURE-A	<b>01 each</b>
	(iii) Metamorphic rocks: As per ANNEXURE-A	<b>01 each</b>
	(iv) Minerals: As per ANNEXURE-A	<b>01 each</b>
F.	Collection of minerals with distinct physical and chemical characteristics As per ANNEXURE-A	<b>As per list</b>
	<b>NOTE:</b> 1) The price should be quoted inclusive of consolidated samples of rocks/mineral for item nos. A, B, C, D & E above, in BOQ/Financial Bid. 2) The price for item 'F' above, to be quoted as per list/ITEM WISE provided in BOQ/ Financial Bid.	

**SUBMISSION OF TENDER**

- I. All bid/ tender documents are to be uploaded online at Central Public Procurement portal i.e. <https://eprocure.gov.in/eprocure/app> only and in the designated cover/ part on the website against tender ID. Tenders/ bids shall be accepted only through online mode and no manual submission of the same shall be entertained except tender fee and EMD. Late tenders will not be accepted.
- II. The online bids shall be opened at the office of the Assistant Registrar (P&S), IISER Mohali, on above given date and time. If the tender opening date happens to be on a holiday or non-working day due to any other valid reason, the tender opening process will be attended on the next working day at same time and place. IISER Mohali will not be responsible for any error like missing of schedule data while downloading by the Bidder.
- III. The bidder shall upload the tender documents duly filled in and stamped by the authorized signatory on each and every page. Tender not submitted/uploaded in the prescribed form and as per the tender terms and conditions shall be liable for rejection.
- IV. The bidder shall upload scanned copy of the PAN Card, GST number duly signed and stamped. **Also bidders applying against 'MSME/NSIC Certificate' issued by appropriate Authority, should ensure that the certificate attached is relevant to the area of service/supply. For example, If the tender is for "supply & installation of Desktop" the certificate should be issued for activity/area of "Computer supply and services activities etc" otherwise bid will be REJECTED without notice.**
- V. E-procurement system ensures locking on the scheduled date and time. The system will not accept any bid after the scheduled date and time of submission of bid.

## **INSTRUCTIONS**

1. The Online bids should be submitted directly by the original manufacturer/supplier, If quotation is submitted/filled by any representative/agent/dealer then they must upload a authority certificate from the principal company for quoting the price otherwise such quotation will be rejected.
2. The quantity mentioned in this inquiry is and shall be deemed to be only approximate and will not in any manner be binding on the Institute. Before the deadline for submission of the online bid, IISER Mohali reserves the right to modify the tender document terms and conditions. Such amendment/modification will be notified on website against said tender ID.
3. The rates offered should be FOR Chandigarh/Mohali in case of firms situated outside Chandigarh/Mohali, and free delivery at the Institute premises in case of local firms. Supplier from outside India should mention the Ex-works/FOB/FCA/CIF/CIP price clearly. Conditional tenders will be summarily rejected.
4. In case of Ex-godown terms the amount of packaging forwarding freight etc. should clearly be indicated by percentage or lump sum amount. Institute has policy not to make any advance payments towards any purchase, Letter of credit can be opened if required.
5. THE INSTITUTE IS EXEMPTED FROM CUSTOM DUTY under notification no- TU/V/RG/-CDE(1062)/201 CUSTOM DT.30.08.2016.
6. Tax: This Institute is not exempted from the payment of GST. The current rate (i.e. percentage of GST should be clearly indicated included or excluded) wherever chargeable. Please also provide/upload the copy of PAN card, GST number duly self-attested.
7. Concessional GST is applicable for all the items purchased for Research labs vide Ministry of Finance, notification no. 45/22017 dated 14.11.2017 and 47/2017 dated 14.11.2017.
8. Bidder/s quoting in currency other than **Indian Rupee (INR)** should explicitly mention the currency in which tender quoted wherever applicable in Technical Bid along the tender documents.
9. The delivery period should be specifically stated. Earlier delivery will be preferred.
10. The firms are requested to provide/upload detailed description and specifications together with the detailed drawings, printed leaflets and literature of the article quoted. The name of the manufactures and country of manufacture should also invariably be stated. In the absence of these particulars, the quotation is liable for rejection.
11. Validity of offer: 90 days. The warranty period after satisfactory installation should be mentioned and firm should replace all manufacturing defect parts/ whole item under warranty without any extra cost including clearance, freight, taxes. Security deposit/ Bank Performance Guarantee @ 10 % of the value of supply order as per norms may be sought from the firms.
12. The right to reject all or any of the quotation and to split up the requirements or relax any or all the above conditions without assigning any reason is reserved by the IISER Mohali. For any corrigendum and addendum please be checked the website <https://eprocure.gov.in/eprocure/app> and <http://www.iisermohali.ac.in>
13. Disputes, if any, shall be subject to jurisdiction in the court of Mohali only.

-sd-  
(Mukesh Kumar)  
Assistant Registrar (P&S)

## **Tender specifications for collection of Minerals, Rocks and Fossils**

**A. Provide minimum 70 mineral specimens in steel display tray from the following list (minimum size : 5 x 7 cm)**

Sl.No.	Name of Specimen	Sl.No.	Name of Specimen
01	Actinolite	39	Muscovite Flakes
02	Agate	40	Silliminate
03	Agate Tree	41	Calcite Transparent
04	Amazonite	42	Chalcedony
05	Anhydrite	43	Chalcedony Bluish
06	Appophyllite Green	44	Corundum Massive
07	Appophyllite White	45	Corundum Red
08	Aragonite	46	Dolomite
09	Asbestos	47	Dumortierite
10	Bentonite	48	Feldspar Pink
11	Beryl Massive	49	Feldspar White
12	Beryl Crystal	50	Fluorite Small
13	Biotite	51	Garnet crystal
14	Calcite Green	52	Geode
15	Calcite White	53	Graphite
16	Gypsum	54	Quartz White
17	Gypsum Selenite	55	Quartz with Amethyst
18	Halite	56	Rhodonite
19	Heulandite	57	Rock Crystal
20	Hornblende Green	58	Rock Crystal Agg.(Amethyst)
21	Hornblende in Rock	59	Scolecite
22	Iceland spar	60	Serpentine
23	Tourmaline	61	Natrolite
24	Jade	62	Sillimanite Pink
25	Jasper Banded Hematite	63	Sodalite
26	Jasper Conglomerate	64	Stilbite
27	Jasper Red	65	Staurolite XL.
28	Jasper Green	66	Talc Green
29	Jasper Yellow	67	Talc White
30	Phlogopite	68	Thomsonite
31	Kaolin	69	Tremolite
32	Kyanite Blue Bladed	70	Tourmaline
33	Martite XL.	71	Nephelene in Rock
34	Mesolite	72	Vermiculite Pcs.
35	Microcline	73	Opal
36	Muscovite Book	74	Lepidotite
37	Quartz Milky	75	Orthoclase
38	Quartz Crystal	76	Quartz Smoky

**B. List of important Ore mineral specimens (minimum Size: 4 x 6 cm) in steel display tray:**

Sl.No.	Name of Specimen	Sl.No.	Name of Specimen
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01	Azurite	11	Magnesite
02	Barite	12	Magnetite
03	Bauxite	13	Malachite
04	Chalcopyrite	14	Manganese Ore
05	Chromite	15	Psilomelane
06	Sphalerite	16	Pyrite
07	Galena	17	Pyrolusite
08	Galena Argentiferous	18	Ilmenite
09	Goethite	19	Stibnite
10	Hematite	20	Graphite

**C. List of important plant and invertebrate fossils in steel display tray**

Sl.No.	Name of Specimen	Sl.No.	Name of Specimen
01	Gleichenites	27	Vertebraria Indica
02	Ptillophyllum	28	Wood Fossil
03	Glossopteris	29	Wood Fossil Giant
04	Alveolina	30	Cidaris Spine
05	Assilina	31	Circe
06	Alectroynia Angulata	32	Conus
07	Arca Shell	33	Cyrena
08	Belemnites Elongates	34	Discocyclina Javana
09	Belemnites Fibula	35	Eocyprea
10	Belemnites Seclusus	36	Fenestella in Shale
11	Brenia	37	Gryphea
12	Cardita Single Valve	38	Hemiaster
13	Cardium single Valve	39	Isastrea
14	Cerithium	40	Lucina Double Valve
15	Chama	41	Lucina Single Valve
16	Cidaris	42	Megalodon
17	Montiveltia	43	Meritrix
18	Murex	44	Perisphentis
19	Naticasegeritina	45	Rhynchonella
20	Nummulites 1cm.	46	Terebratula
21	Ostrea Angulata	47	Trigonia
22	Ostrea Both Valves	48	Trigonoarca
23	Ostrea Gajensis	49	Turbo
24	Pecten	50	Turritella
25	Pecten Both Valves	51	Unio
26	Physa		

**D. Provide minimum 100 rock specimens in steel display tray from the following list (minimum size: 6 x 8 cm)**

Sl.No.	Name of Specimen	Sl.No.	Name of Specimen
01	Aplite	57	Gneiss Bengal
02	Amphibolites	58	Gneiss Bundelkhand
03	Anorthosite	59	Golden Oolite
04	Anorthosite White	60	Granite Epidote – Red
05	Ankaramite	61	Granite Grey
06	Amygdaloidal Basalt	62	Limestone Black
07	Arkose	63	Limestone Chocolate

08	Basic Vesicular Lava	64	Limestone Coralline
09	Basalt Fine Grain	65	Limestone Crystalline
10	Biotite Schist	66	Limestone Foraminifera
11	Biotite Kyanite Schist	67	Limestone with Fossil
12	Breccia	68	Limestone Jaisalmer Jurassic
13	Carbonaceous Shale	69	Limestone Reddish
14	Coal Banded	70	Limestone Upper Bhandara
15	Coal Durain	71	Limestone Yellow
16	Coal Fusion	72	Marble Black
17	Calcite Rock Orange	73	Marble Coarse Grain White
18	Calcite Rock White	74	Marble Chocolate
19	Calcite Rock Yellow	75	Marble Greenish
20	Charnockite Acid	76	Marble Makrana
21	Charnockite Basic	77	Marble Pink
22	Charnockite Intermediate	78	Volcanic Tuff Green
23	Granite Gneiss	79	Mica Schist Kalimpong
24	Granite Porphyritic	80	Zeolite in Trap
25	Granite Singhbhum	81	Nepheline Syenite Sivamalai
26	Granite White	82	Norite
27	Granodiorite	83	Obsidian
28	Granophyre	84	Pegmatite
29	Graphic Granite	85	Phyllite
30	Graphite Schist	86	Pitchstone
31	Greywacke	87	Quartzite Banded Hematite
32	Gondite	88	Slate Kangra
33	Hornblende Schist	89	Shale Grey Barakar
34	Khondalite	90	Shale Suket
35	Lamprophyre Leucite	91	Shale Talcher
36	Laterite	92	Quartzite Fruscite
37	Leptinite	93	Quartzite Green with Rubellite
38	Limestone Algal	94	Quartzite Grey
39	Limestone Banded	95	Quartzite Reddish
40	Sandstone Talchir	96	Quartzite White
41	Scrol Rock	97	Rhyolite Chocolate
42	Serpentine Rock (Bluish Green)	98	Rhyolite Pinkish
43	Serpentinite	99	Rhyolite with Flow Structure
44	Shale with Fossil	100	Sandstone
45	Chlorite Schist	101	Sandstone Barakar
46	Conglomerate	102	Sandstone Bermer
47	Dacite	103	Sandstone Grey
48	Diorite	104	Sandstone Jurassic Kutch
49	Dolerite (Asansol Fm)	105	Sandstone Pink(Vindayan)
50	Dolerite (Surguja Fm)	106	Sandstone Spotted
51	Dunite	107	Sodalite Syenite
52	Fireclay Brown	108	Staurolite Schist
53	Fireclay White	109	Talc Schist
54	Gabbro Med. Grain	110	Three Phenocryst Basalt
55	Garnet Mica Gneiss	111	Trachyte
56	Garnet Mica Schist	112	Unakite

### **E. List of rock and mineral thin sections with slide storage box**

#### **(i) Igneous rocks:**

Sl.No.	Name of Specimen	Sl.No.	Name of Specimen
01	Amygdaloidal Basalt	21	Monzonite
02	Andesite	22	NepheleneSyenite
03	Anorthosite	23	Norite
04	Basalt Coarse Grained	24	Obsidian
05	Basalt Fine Grained	25	Olivine Basalt
06	Charnockite Acid	26	Olivine Dolerite
07	Charnockite Basic	27	Pegmatite
08	Charnockite Intermediate	28	Peridotite
09	Dacite	29	Pumice
10	Dolerite	30	Pyroxenite
11	Dunite	31	Quartz Diorite
12	Gabbro	32	Rhyolite
13	Granite	33	Sodalite Syenite
14	Granodiorite	34	Syenite
15	Granophyre	35	Tachylite
16	Graphic Granite	36	Unakite
17	Lamrophyre	37	Vesicular Basalt
18	Leptinite	38	Vein Quartz in Rock
19	Micro Granite	39	Volcanic Tuff
20	Mica Peridotite		

**ii) Sedimentary rocks:**

Sl.No.	Name of Specimen	Sl.No.	Name of Specimen
01	Arkose	11	Oolitic Limestone
02	Breccia	12	Sandstone micaceous
03	Calcareous Grit	13	Sandstone Calcareous
04	Carbonaceous Shale	14	Sandstone Carbonaceous
05	Coal	15	Sandstone Coarse Grained
06	Conglomerate	16	Sandstone ferruginous
07	Coralline Limestone	17	Sandstone fine Grained
08	Banded Hematite Quartzite	18	Sandstone kaolinised
09	Foraminifera Limestone	19	Shale
10	Limestone		

**iii) Metamorphic rocks:**

Sl.No.	Name of Specimen	Sl.No.	Name of Specimen
01	Amphibolite	17	Khondalite
02	Biotite Schist	18	Kyanite Schist
03	Calc Silicate rock	19	Marble Diopside
04	Chlorite Schist	20	Mica Hornblende Schist
05	Diopside Marble	21	Mica Schist
06	Dumortierite Schist	22	Phyllite
07	Epidote Schist	23	Piedmontite Quartzite



08	Fuchsite Quartzite	24	Pyroxenite
09	Garnet Granulite	25	Quartzite
10	Garnet Mica Schist	26	Schrol Rock
11	Glaucofane Schist	27	Serpentine Rock
12	Gondite	28	Slate
13	Granite Gneiss	29	Staurolite Schist
14	Hornblende Gneiss	30	Talc Schist
15	Hornblende Schist	31	Tremolite Schist
16	Hypersthene Granulite	32	Woolastonite Marble

#### iv) Minerals

Sl.No.	Name of Specimen	Sl.No.	Name of Specimen
01	Actinolite	25	Olivine
02	Aegirine	26	Glauconite
03	Agate	27	Glaucofane
04	Amazonestone	28	Gypsum
05	Andalusite	29	Hematite
06	Anhydrite	30	Heulandite
07	Apatite	31	Hornblende
08	Apophyllite	32	Hypersthene
09	Aragonite	33	Ilmenite
10	Augite in Rock	34	Jade
11	Barite	35	Jasper
12	Beryl	36	Kyanite
13	Biotite	37	Labradorite
14	Calcite	38	Lepidolite
15	Chalcedony	39	Limonite
16	Chlorite	40	Magnesite
17	Corundum	41	Magnetite
18	Diopside	42	Mesolite
19	Dumortierite	43	Microcline
20	Enstatite	44	Muscovite
21	Epidote	45	Natrolite
22	Fayalite	46	Nephelene
23	Fluorite	47	Oligoclase
24	Goethite		

#### **F) Collection of minerals with distinct physical and chemical characteristics**

Sl.No.	Description	Set
01	Moh's Scale of Hardness ,No.1-9 (Small Pcs) in a Velvet Box and with 1no.each of the followings :- Diamond Tipped Pencil, Iron Plate, Brass Plate, Glass Plate, Streak Plate, Pocket Lens 10X, Pocket Magnet-horseshoe type, Pocket Knife-Multipurpose type , Acid Drop Bottle (Empty) all arranged in a nylon Pouch	5
02	Collection of 15 Minerals showing Natural Crystals	1
03	Collection of 15 Minerals showing Lustre	1
04	Collection of 15 Minerals showing Colour	1
05	Collection of 15 Minerals showing Cleavage	1
06	Collection of 10 Minerals showing Fracture	1
07	Collection of 12 Minerals showing Tenacity	1

08	Collection of 15 Minerals for Refractory Industry	1
09	Collection of 10 Minerals for Cement Industry	1
10	Collection of 15 Minerals for Paints Industry	1
11	Collection of 15 Minerals for Building Industry	1
12	Collection of 10 Minerals showing Crystal Aggregates	1
14	Collection of 20 Common Minerals-Small Pcs.	1
15	Collection of 15 Volcanic Products	1
17	Collection of 10 Minerals showing Streaks	1
18	Collection of 10 Minerals showing Feel Properties	1
19.	Collection of 12 Minerals showing Specific Gravity	1
20	Collection of 20 Minerals showing Habits	1
21	Munsell Rock Colour Chart , with 115 Colour Chips with Munsell numerical designation for identifying range of Rock Colours	1
22	Munsell Soil Colour Chart developed in cooperation with the U.S. Soil Conservation Service guidelines for classifying colors of various soils.	1
23	Sand Grain Size Chart /Folder for quick and accurate identification of grain size and shape, grain sorting, roundness, and sphericity of a sample	1

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