



## Indian Institute of Technology Kanpur National Centre for Flexible Electronics

Enquiry number: SCDT/FLEXE/2022-23/05EP

Date: 17 October 2022

Opening Date : 17/10/2022

Closing Date : 07/11/2022

Sealed quotations from prospective vendors are invited by the National Centre for Flexible Electronics, IIT Kanpur for “**OLED Red Stack Materials**” with the following technical specification.

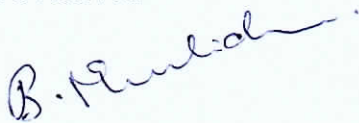
- The stack should not have more than eight layers including electrodes
- All the materials should be suitable for OLED fabrication by thermal evaporation
- The supplier should have demonstrated the stack on test devices of few mm<sup>2</sup> size with:
- Current efficiency >30 cd/A and power efficiency >25 lm/W @10mA/cm<sup>2</sup>
- It should be possible to reach brightness of >3000 cd/m<sup>2</sup> @ <4V
- CIE<sub>x</sub> > 0.64 and CIE<sub>y</sub> <0.36 @3000 cd/m<sup>2</sup>
- T<sub>50</sub> lifetime at initial brightness of 3000 cd/m<sup>2</sup> should be > 50k hours
- The supplier should have wide chemical synthesis expertise and at least one of the stack materials should be their own molecule developed in-house
- The supplier should be capable of large-scale production of these materials and should provide estimated price for 100g and 1Kg of the materials

### Total required quantity-

Material No.	Description of Material	Qty. required
IPD-01	OLED-p-dopant	1.00g
IHT-01	OLED-hole transport material 1	8.00g
IHT-02	OLED – hole transport material 2	8.00g
IPR-01	OLED-red dopant	1.00g
IRH-01	OLED red host	7.00g
IET-01	OLED-Electron transport material	3.00g
Liq	OLED-electron injection material	5.00g

### **General Terms & Condition.**

1. All vendors are requested to submit “**technical and financial bids**” together in separately sealed envelopes.
2. Evaluation will be done on the basis of technical specifications given in tender document.
3. Financial bid will be open for those only who qualify all the technical specification as per our tender notice.
4. Quotation must be valid for 60 days.
5. Payments terms: 100% after delivery.
6. Only OEM or its authorized agents should quote, Quotation should carry proper certifications like proprietary certificate/ authorization certificate from manufacturer, etc.
7. Quotation must integrate FOR/FOB prices.
8. The delivery period should within 1 month after receipt of P.O.
9. At any time prior to the deadline for submission of bid, the institute may, for any reason, at its own initiative, modify the bid document by amendments. Such amendments shall be uploaded on the website through corrigendum and shall form an integral part of bid document. The relevant clauses of the bid document shall be treated as amended accordingly. It shall be the sole responsibility of the prospective bidders to check the website from time to time for any amendment in the tender document. In case of failure to get the amendments, if any, the Institute shall not be responsible for it.
10. The Penalty @1% per week or part thereof subject to max 10% of the delivery price will be deducted from the balance payment, if supply is not completed within aforesaid delivery period.
11. The indenter reserves the right to withhold placement of final order. The right to reject all or any of the quotations and to split up the requirements or relax any or all of the above conditions without assigning any reason is reserved.



✓ Dr. Muralidharan Balakrishnan,  
National Centre for Flexible Electronics  
Indian Institute of Technology Kanpur  
Uttar Pradesh-208016, India.  
Email: [muralib@iitk.ac.in](mailto:muralib@iitk.ac.in)  
Contact: 0512-259-6589