

**No. DST/TDT/DDP-52/2021(G)**

Government of India  
Ministry of Science & Technology  
Department of Science & Technology  
(Technology Development & Transfer)

Technology Bhavan, New Delhi  
Dated **28.12.2021**

**ORDER**

**Sub:** - Financial support for the project entitled "**Development of Carbon Nanostructures and Related Hybrid Based lithographically fabricated Field emission Electron Gun device as X-Ray Generators for applications in medical imaging and microradiotherapy**" by Prof. Santanu Ghosh, Department of Physics, IIT Delhi & Dr. Diptonil Banerjee, TMU, Moradabad, Uttar Pradesh & Dr. Menaka Jha, INST, Mohali, Punjab.

Sanction of the President is hereby accorded to the approval to the above mention project at a total cost of **Rs. 63,60,625/- (Rs. Sixty-Three Lakh Sixty Thousand Six Hundred and Twenty-Five Only)** for the duration of **3 years**. The detailed breakup of the grant for general as well as capital components are given below: -

**Total Project Cost = Rs. 63,60,625/-**

Grant	IIT Delhi	TMU, Moradabad	INST, Mohali	Total
General	20,64,705	4,00,000	17,34,520	<b>41,99,225</b>
Capital	6,00,000	15,61,400	0	<b>21,61,400</b>
<b>Total</b>	<b>26,64,705</b>	<b>19,61,400</b>	<b>17,34,520</b>	<b>63,60,625</b>

<b>Host Institute 1: IIT Delhi</b>					
<b>Total Budget</b>					<b>(In Rs.)</b>
Sl. No	Items	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	Total
1.	Equipment	600000	0	0	<b>600000</b>
2.	Manpower (01 Project Associate @ Rs 31,000 +27% HRA)	472440	472440	472440	<b>1417320</b>
3.	Consumable	50000	50000	50000	<b>150000</b>
4.	Travel	50000	50000	50000	<b>150000</b>
5.	Contingency	50000	50000	50000	<b>150000</b>
6.	Overhead	97795	49795	49795	<b>197385</b>
	<b>Total</b>	<b>13,20,235</b>	<b>6,72,235</b>	<b>6,72,235</b>	<b>26,64,705</b>

<b>Host Institute 2: Teerthanker Mahaveer University</b>					
<b>Total Budget</b>					<b>(In Rs.)</b>
Sl. No	Items	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	Total
1.	Equipment	1561400	0	0	<b>1561400</b>
2.	Consumable	75000	50000	25000	<b>150000</b>
3.	Travel	40000	30000	30000	<b>100000</b>
4.	Contingency	50000	50000	50000	<b>150000</b>
	<b>Total</b>	<b>17,26,400</b>	<b>1,30,000</b>	<b>1,05,000</b>	<b>19,61,400</b>



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<b>Host Institute 3: Institute of Nanoscience and Technology</b>					
<b>Total Budget</b>					<b>(In Rs.)</b>
<b>Sl. No</b>	<b>Items</b>	<b>1st year</b>	<b>2nd year</b>	<b>3rd year</b>	<b>Total</b>
1.	<b>Manpower</b> (01 JRF @ Rs 31,000 +18% HRA)	438960	438960	495600	<b>1373520</b>
2.	<b>Consumable</b>	50000	50000	50000	<b>150000</b>
3.	<b>Travel</b>	10000	30000	40000	<b>80000</b>
4.	<b>Contingency</b>	50000	50000	31000	<b>131000</b>
	<b>Total</b>	<b>5,48,960</b>	<b>5,68,960</b>	<b>6,16,600</b>	<b>17,34,520</b>

2. The sanction of the President is also accorded to the release of **Total Rs.14,34,195/- i.e. Rs.7,20,235/-** (Rs. Seven Lakh Twenty Thousand Two-Hundred and Thirty-Five Only) to the "Registrar, Indian Institute of Technology, Delhi" & **Rs.1,65,000/-** (Rs. One Lakh Sixty-Five Thousand Only) to the "Registrar, Teerthanker Mahaveer University" & **Rs. 5,48,960/-** (Rs. Five Lakh Forty-Eight Thousand Nine Hundred and Sixty Only) to the "Director, Institute of Nanoscience and Technology" being the first installment of grant as mentioned above table under "General Component" for the above mentioned project.

3. This sanction is subject to the condition that the grantee organization will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report at the end of each financial year duly reflecting the interest earned / accrued on the grant received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.

4. The grantee organization will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final installment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.

5. If the grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s), separate SE/UC has to be furnished for the release Capital head grant.

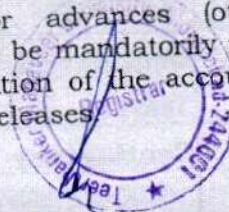
6. The grant-in-aid being released is subject to the condition that

a) A transparent procurement procedure in line with Provisions of General Financial Rules 2017 will be followed by the Institute/Organization under the appropriate rules of grantee organization while procuring capital assets sanctioned for the above-mentioned project and a certificate to this effect will be submitted by the Grantee organization immediately on receipt of the grant.

b) While submitting Utilization Certificate/Statement of Expenditure, the organization has to ensure submission of supporting documentary evidences with regard of the purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grants under the project shall be considered only on receipt of the said documents.

7. As per the GFR 2017 Rule 230 (8) the Grantee Institute should ensure that all the interests or other earnings against Grant-in-Aid or advances (other than reimbursement) released to any Grantee institution should be mandatorily remitted to the Consolidated Fund of India immediately after finalization of the accounts. Such advances will not be allowed to be adjusted against future releases.

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28/12/21





8. As per the GFR 2017 Rule 230 (17) "the Grantee Institute should agree to make reservations for Scheduled Castes and Scheduled Tribes or OBC in the posts or services under its control on the lines indicated by the Government of India"
9. **As per the GFR 2017, it is mandatory for the grantee organization to purchase the equipment through the Government e-Marketplace (GeM), to the extent available there as the project involves government funding.**
10. The grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. For Grants released during F.Y. 2017-18 and onwards, all interests and other earnings against released Grant shall be remitted to Consolidated Fund of India (through Non-Tax Receipt Portal (NTRP), i.e. [www.bharatkosh.gov.in](http://www.bharatkosh.gov.in)), immediately after finalization of accounts, as it shall not be adjusted towards future release of Grant. A certificate to this effect shall have to be submitted along with Statement of Expenditure/ Utilization Certificate for considering subsequent release of Grant/ Closure of Project accounts.
11. DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.
12. The account of the grantee organization shall be open to inspection by the sanctioning authority and audit (both by C&AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the organization is called upon to do so, as laid down under Rule 236(1) of General Financial Rules 2017.
13. Due acknowledgement of technical support/ financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organization in bold letters in all publication/ media release as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.
14. Failure to comply with the terms and conditions of the Bond will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.
15. **It is mandatory to use EAT module in PFMS, failing which no further funds shall be released. It may also noted that subsequent releases will be made on the basis of the successful achievement of targets as per the timelines evaluated by the expert advisory committee.**
16. **Goods (Consumable/Equipment) available in GeM portal are to be procured mandatorily online through GeM only as per the provisions of Rule 149 of GFR.**
17. The expenditure involved is debatable to Demand No.88, Department of Science & Technology for the year 2021-22:

3425	Other Scientific Research (Major Head)
60	Others
60.200	Assistance to Other Scientific Bodes (Minor Head)
70	Innovation, Technology Development & Deployment
70.00.31	Grants-in-aid General for the year 21-22
	Previous: TDP-NRDMS-3425.60.200.26.01.31

18. (A) The amount of release **Rs.7,20,235/- (Rs. Seven Lakh Twenty Thousand Two-Hundred and Thirty-Five Only)** will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to the **"Registrar, Indian Institute of Technology, Delhi"**.

The bank details for electronic transfer of funds through RTGS are given below:

<b>Name of A/C Holder</b>	<b>IRD Account IIT-D</b>
<b>Bank A/C No</b>	<b>10773572600</b>
<b>Name of the Bank &amp; branch</b>	<b>State Bank of India, IIT-D</b>
<b>RTGS/IFSC code</b>	<b>SBIN001077</b>
<b>MICR code</b>	<b>110002156</b>





(B) The amount of release Rs.1,65,000/- (Rs. One Lakh Sixty-Five Thousand Only) will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to the "Registrar, Teerthanker Mahaveer University".

The bank details for electronic transfer of funds through RTGS are given below:

Name of A/C Holder	Teerthanker Mahaveer University
Bank A/C No	6010002100001715
Name of the Bank & branch	Punjab National Bank TMU Bagarpur, Moradabad
RTGS/IFSC code	PUNB0601000

(C). The amount of release Rs.5,48,960/- (Rs. Five Lakh Forty-Eight Thousand Nine- Hundred and Sixty Only) will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to the "Director, Institute of Nanoscience and Technology".

The bank details for electronic transfer of funds through RTGS are given below:

Name of A/C Holder	INST Mohali
Bank A/C No	2919101003285
Name of the Bank & branch	Canara Bank
RTGS/IFSC code	CNRB0002919
MICR code	160015021

19. As per Rule 234 of GFR 2017, the sanction has been entered at S. No. **242** in the register of grants maintained in the Division for the scheme **DDP**.

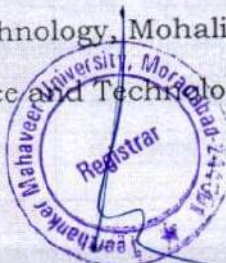
20. This issues with the concurrence of IFD Vide their Concurring Dy. No **C/3778/IFD/2021-22** dated **28.12.2021**.

*[Signature]*  
(Dr. Akhilesh Mishra)  
Scientist-E  
Tel: 011-26590254

To  
The Pay and Accounts Officer,  
Department of Science & Technology,  
New Delhi.

Copy of information and necessary action to: -

1. The Principal Director of Audit, Scientific Department, IIIrd floor, AGCR Building, I.P. Estate, New Delhi.
2. Drawing and Disbursing Officer, DST, Cash Section. (two copies)
3. **Prof. Santanu Ghosh**,  
Department of Physics Indian Institute of Technology Delhi
4. **Registrar, Indian Institute of Technology, Delhi**
5. **Dr. Diptonil Banerjee**,  
Teerthanker Mahaveer University,  
Moradabad, Uttar Pradesh
6. **Registrar, Teerthanker Mahaveer University**
7. **Dr. Menaka Jha**,  
Institute of Nanoscience and Technology, Mohali, Punjab
8. **Director, Institute of Nanoscience and Technology, Mohali, Punjab.**
6. Head(TDT), DST
7. Sanction folder (TDT).
8. File copy (e-37446).



*[Signature]*  
(Dr. Akhilesh Mishra)  
Scientist-E



**No. DST/TDT/DDP-52/2021(C)**

Government of India  
Ministry of Science & Technology  
Department of Science & Technology  
(Technology Development & Transfer)

Technology Bhavan, New Delhi

Dated **28.12.2021**

**ORDER**

**Sub:** - Financial support for the project entitled **"Development of Carbon Nanostructures and Related Hybrid Based lithographically fabricated Field emission Electron Gun device as X-Ray Generators for applications in medical imaging and microradiotherapy"** by Prof. Santanu Ghosh, Department of Physics, IIT Delhi & Dr. Diptonil Banerjee, TMU, Moradabad, Uttar Pradesh & Dr. Menaka Jha, INST, Mohali, Punjab -Release of the first installment regarding.

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Sanction of the President is hereby accorded to the approval to the above mention project at a total cost of **Rs. 63,60,625/- (Rs. Sixty-Three Lakh Sixty Thousand Six Hundred Twenty-Five Only)** for the duration of **3 years..** The detailed breakup of the grant for general as well as capital components are given below:

**Total Project Cost = Rs. 63,60,625/-**

Grant	IIT Delhi	TMU, Moradabad	INST, Mohali	Total
General	20,64,705	4,00,000	17,34,520	<b>4199225</b>
Capital	6,00,000	15,61,400	0	<b>2161400</b>
<b>Total</b>	<b>26,64,705</b>	<b>19,61,400</b>	<b>17,34,520</b>	<b>63,60,625</b>

Host Institute 1:IIT Delhi				
Sl. No.	Non-Recurring Head	(in Rs.)		
1.	Name of the equipment	1 <sup>st</sup> year	2 <sup>nd</sup> year	Total
2.	High precision Multimeter	450000	-	450000
3.	High Voltage Power Supply	150000	-	150000
	<b>Total</b>	<b>600000</b>	<b>-</b>	<b>600000</b>

Host Institute 2:Teerthanker Mahaveer University				
Non-Recurring Head				
Sl. No:	Name of the equipment	1 <sup>st</sup> year	2 <sup>nd</sup> year	Total
1.	Magnetic Stirrer with hot plate	15000	-	15000
2.	High precision weight machine	65000	-	65000
3.	Digital Multimeter	30000	-	30000
4.	High temperature furnace	75000	-	75000
5.	Ultra-sonicator	35000	-	35000
6.	Low temperature Oven	25000	-	25000
7.	Spin-Coater	150000	-	150000
8.	Thermal CVD with accessories	666400	-	666400
9.	1 Turbo Pump	500000	-	500000
	<b>Total)</b>	<b>15,61,400</b>	<b>-</b>	<b>15,61,400</b>

2.The sanction of the President is also accorded to the release of total **Rs.21,61,400/-** i.e. **Rs.6,00,000/-** (Rupees Six Lakh Only) as the **"Capital Component"** to the **"Registrar, Indian Institute of Technology, Delhi"** & **Rs.15,61,400/-** (Rs. Fifteen Lakh Sixty-One Thousand and Four Hundred Only) as the **"Capital Component"** to the **"Registrar, Teerthanker Mahaveer University"** being the first installment of grant as mentioned above table under **"Capital Component"** for the above mentioned project.

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28/12/21



3. This sanction is subject to the condition that the grantee organization will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report at the end of each financial year duly reflecting the interest earned / accrued on the grant received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.

4. The grantee organization will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final installment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.

5. If the grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s), separate SE/UC has to be furnished for the release Capital head grant.

6. The grant-in-aid being released is subject to the condition that

a) A transparent procurement procedure in line with Provisions of General Financial Rules 2017 will be followed by the Institute/Organization under the appropriate rules of grantee organization while procuring capital assets sanctioned for the above-mentioned project and a certificate to this effect will be submitted by the Grantee organization immediately on receipt of the grant.

b) While submitting Utilization Certificate/Statement of Expenditure, the organization has to ensure submission of supporting documentary evidences with regard of the purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grants under the project shall be considered only on receipt of the said documents.

7. As per the GFR 2017 Rule 230 (8) the Grantee Institute should ensure that all the interests or other earnings against Grant-in-Aid or advances (other than reimbursement) released to any Grantee institution should be mandatorily remitted to the Consolidated Fund of India immediately after finalization of the accounts. Such advances will not be allowed to be adjusted against future releases.

8. As per the GFR 2017 Rule 230 (17) "the Grantee Institute should agree to make reservations for Scheduled Castes and Scheduled Tribes or OBC in the posts or services under its control on the lines indicated by the Government of India"

**9. As per the GFR 2017, it is mandatory for the grantee organization to purchase the equipment through the Government e-Marketplace (GeM), to the extent available there as the project involves government funding.**

10. The grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. For Grants released during F.Y. 2017-18 and onwards, all interests and other earnings against released Grant shall be remitted to Consolidated Fund of India (through Non-Tax Receipt Portal (NTRP), i.e. [www.bharatkosh.gov.in](http://www.bharatkosh.gov.in)), immediately after finalization of accounts, as it shall not be adjusted towards future release of Grant. A certificate to this effect shall have to be submitted along with Statement of Expenditure/ Utilization Certificate for considering subsequent release of Grant/ Closure of Project accounts.

11. DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.

12. The account of the grantee organization shall be open to inspection by the sanctioning authority and audit (both by C&AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the organization is called upon to do so, as laid down under Rule 236(1) of General Financial Rules 2017.



13. Due acknowledgement of technical support/ financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organization in bold letters in all publication/ media release as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.

14. Failure to comply with the terms and conditions of the Bond will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.

15. It is mandatory to use EAT module in PFMS, failing which no further funds shall be released. It may also noted that subsequent releases will be made on the basis of the successful achievement of targets as per the timelines evaluated by the expert advisory committee.

16. Goods (Consumable/Equipment) available in GeM portal are to be procured mandatorily online through GeM only as per the provisions of Rule 149 of GFR.

17. The expenditure involved is debatable to Demand No.88, Department of Science & Technology for the year 2021-22:

3425	Other Scientific Research (Major Head)
60	Others
60.200	Assistance to Other Scientific Bodes (Minor Head)
70	Innovation, Technology Development & Deployment
70.00.35	Grants-in-aid Capital for the year 21-22
	Previous: TDP-NRDMS-3425.60.200.26.01.35

18. (A) The amount of release **Rs.6,00,000/- (Rs. Six Lakh Only)** will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to **"Registrar, Indian Institute of Technology, Delhi"**

The bank details for electronic transfer of funds through RTGS are given below:

<b>Name of A/C Holder</b>	<b>IRD Account IIT-D</b>
<b>BankA/CNo</b>	<b>10773572600</b>
<b>Name of the Bank &amp;branch</b>	<b>State Bank of India, IIT-D, HauzKhas, New Delhi-110016</b>
<b>RTGS/IFSC code</b>	<b>SBIN001077</b>
<b>MICRcode</b>	<b>110002156</b>

(B) The amount of release **Rs.15,61,400/- (Rs. Fifteen Lakh Sixty-One Thousand and Four Hundred Only)** will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to **"Registrar, Teerthanker Mahaveer University"**

The bank details for electronic transfer of funds through RTGS are given below:

<b>Name of A/C Holder</b>	<b>Teerthanker Mahaveer University</b>
<b>BankA/CNo</b>	<b>Punjab National Bank</b>
<b>Name of the Bank &amp;branch</b>	<b>TMU Bagarpur, Moradabad</b>
<b>RTGS/IFSC code</b>	<b>6010002100001715</b>
<b>MICRcode</b>	<b>PUNB0601000</b>

19. As per Rule 234 of GFR 2017, the sanction has been entered at S. No. **243** in the register of grants maintained in the Division for the scheme **DDP**.

20. This issues with the concurrence of IFD Vide their Concurring Dy. No **C/3779/IFD/2021-22** dated **28.12.2021**.



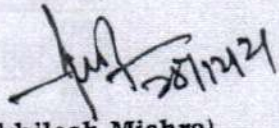
**Dr. Akhilesh Mishra)**  
**Scientist-E**  
**Tel: 011-26590254)**

To  
The Pay and Accounts Officer,  
Department of Science & Technology,  
New Delhi.



Copy of information and necessary action to: -

1. The Principal Director of Audit, Scientific Department, IIIrd floor, AGCR Building, I.P. Estate, New Delhi.
2. Drawing and Disbursing Officer, DST, Cash Section. (two copies)
3. **Prof. Santanu Ghosh,**  
Department of Physics Indian Institute of Technology Delhi
4. **Registrar, Indian Institute of Technology, Delhi**
5. **Dr. Diptonil Banerjee,**  
Teerthanker Mahaveer University,  
Moradabad, Uttar Pradesh
6. **Registrar, Teerthanker Mahaveer University, Moradabad, Uttar Pradesh**
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(Dr. Akhilesh Mishra)  
Scientist-E

