

**SEED/TIASN-2/2019/57(G)**  
Government of India  
Ministry of Science & Technology  
Department of Science & Technology  
(SEED Division)

Technology Bhavan,  
New Mehrauli Road  
New Delhi-110016  
Dated: 28.10.2021

**ORDER**

Sub: **Financial assistance for the project titled "Design and manufacturing of flexible cage for Cattle Transport vehicle with loading adjustment" submitted by Mr. Sandip Subhashrao Patil, Assistant Professor, Department of Mechanical Engineering, Guru Gobind Singh Foundation's Guru Gobind Singh College of Engineering and Research Centre, Nashik, Khalsa Educational Complex, Guru Gobind Singh Marg, Wadala-Parhardi Road,, Annexe Nashik,, Indira Nagar, Nashik, Maharashtra 422009.**

Sanction of the President is hereby accorded to the approval of the above mentioned project at a total cost of **Rs.4,70,000/- (Rupees Four Lakh Seventy Thousand only)** for a duration of two years. The detailed breakup of the grant for General & Capital Components for the DST and Collaborators contribution is given below:-

**DST Contribution**

General Component : Rs.1,70,000/-  
Capital Assets : Rs.2,20,000/-  
TOTAL : **Rs.3,90,000/-**

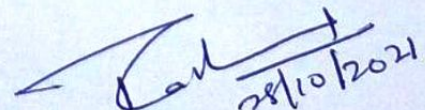
**Collaborator contribution**

General component : Rs. 50,000/-  
Capital Assets : Rs. 30,000/-  
Total : **Rs. 80,000/-**

2. The sanction of the President is also accorded to the release of **Rs.1,10,000/- (Rupees One Lakh Ten Thousand only)** being the first installment under "General Component" for implementation of the above mentioned project. The item of expenditure for which the total allocation of **Rs.4,70,000/-** has been approved for a period of 24 months are given below:

**DST contribution:**

Sr. No.	Budget Head	1 <sup>st</sup> year	2 <sup>nd</sup> year	Total
<b>A</b>	<b>Non-recurring</b>			
a)	Fabrication of Cattle Transport Vehicle (CTV)	170000	50000	<b>220000</b>
	<b>Sub-total (A)</b>	<b>170000</b>	<b>50000</b>	<b>220000</b>
<b>B</b>	<b>Recurring</b>			
1	Consumables	30000	10000	<b>40000</b>
2	Travel	25000	15000	<b>40000</b>
3	Contingency	15000	10000	<b>25000</b>
4	Demo/Training	10000	5000	<b>15000</b>
5	Medical support (Veterinary support for cattles visit/medicine)	15000	10000	<b>25000</b>
6	Overhead	15000	10000	<b>25000</b>
	<b>Sub-total (B)</b>	<b>110000</b>	<b>60000</b>	<b>170000</b>
	<b>Grand total (A+B)</b>	<b>2,80,000/-</b>	<b>1,10,000/-</b>	<b>3,90,000/-</b>

  
28/10/2021

**Collaborator contribution:**

Sr. No.	Budget Head	1 <sup>st</sup> year	2 <sup>nd</sup> year	Total
<b>A</b>	<b>Non-recurring</b>			
a)	Fabrication of Cattle Transport Vehicle (CTV)	20000	10000	30000
	<b>Sub-total (A)</b>	<b>20000</b>	<b>10000</b>	<b>30000</b>
<b>B</b>	<b>Recurring</b>			
1	Consumables			
2	Travel	5000	5000	10000
3	Contingency	5000	5000	10000
4	Demo/Training	5000	5000	10000
5	Medical support	0	5000	5000
	(Veterinary support for cattles visit/medicine)	0	5000	5000
6	Overhead	5000	5000	10000
	<b>Sub-total (B)</b>	<b>20000</b>	<b>30000</b>	<b>50000</b>
	<b>Grand total (A+B)</b>	<b>40,000/-</b>	<b>40,000/-</b>	<b>80,000/-</b>

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 grants 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.

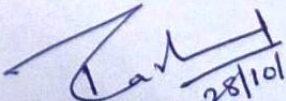
5. If the grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s), separate SE&UC has to be furnished for the released Capital head grant.

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

(a) a transparent procurement procedure in line with the Provision of General Financial Rules 2017 will be followed by the Institute/Organization under the appropriate rules of the 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 to 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. **"The grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing 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".**

  
28/10/2024

8. As per rule of GFR 2017, it is mandatory for the grantee organization to purchase the consumables through the Government e-marketplace (GeM), to the extent availability there as the project involves Government funding.

9. Grantee Organization is to adhere to the EAT module of PFMS in filing of the expenditure, transferring of funds, advance and its settlements.

10. (a) DST reserves sole rights on the assets 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.

(b). DST reserves rights to close the project activity any time based on the review of progress of the project.

(c). A prior intimation to DST by grantee is must before leaving the country for attending conference/availing any short term fellowship abroad during the project tenure.

11. 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.

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

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

14. The expenditure involved is dubitable 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 and Deployment  
70.00.31 : Grants-in-aid General for the year 2021-22 (Plan)  
\*( Previous : SSP-SEED-3425.60.200.08.11.31)

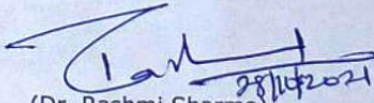
15. The amount **Rs.1,10,000/- (Rupees One Lakh Ten Thousand only)** will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to Registrar, Guru Gobind Singh Foundation's Guru Gobind Singh College of Engineering and Research Centre, Nashik, Khalsa Educational Complex, Guru Gobind Singh Marg, Wadala-Parhardi Road,, Annexe Nashik,, Indira Nagar, Nashik, Maharashtra 422009. The bank details for electronic transfer of funds through RTGS are given below:-

Institution Account Name	<b>Director, Guru Gobind Singh Foundation, Nashik</b>
Saving Account Number	<b>504302010014018</b>
Name of Bank	<b>Union Bank of India</b>
RTGS/IFS Code	<b>UBIN0550434</b>
MICR Code	<b>422026006</b>

16. As per Rule 234 of GFR 2017, this sanction has been entered at S. No. **114** in the register of grants maintained in the Division for the scheme.

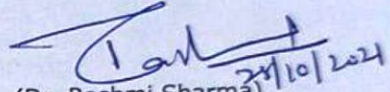
17. This issues with the concurrence of IFD Vide their Concurrence Dy. No. C/2883/IFD/2021-22 Dated 28.10.2021.

18. Niti Aayog NGO Darpan Unique ID : **MH/2018/0183588**.

  
(Dr. Rashmi Sharma)  
Scientist-'F'  
011-26590541

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

1. Copy for information and necessary action to:-
2. Cash Section (3 copies) for making the payment to the grantee.
3. Account Section.
4. Director of Audit, (Scientific Deptt), AGCR Building, New Delhi - 110 002.
5. Registrar, Guru Gobind Singh Foundation's Guru Gobind Singh College of Engineering and Research Centre, Nashik, Khalsa Educational Complex, Guru Gobind Singh Marg, Wadala-Parhardi Road,, Annexe Nashik,, Indira Nagar, Nashik, Maharashtra 422009.
6. Mr. Sandip Subhashrao Patil, Assistant Professor, Department of Mechanical Engineering, Guru Gobind Singh Foundation's Guru Gobind Singh College of Engineering and Research Centre, Nashik, Khalsa Educational Complex, Guru Gobind Singh Marg, Wadala-Parhardi Road,, Annexe Nashik,, Indira Nagar, Nashik, Maharashtra 422009.
7. Head (SEED)
8. Sanction Folder

  
(Dr. Rashmi Sharma)  
Scientist-'F'  
011-26590541  
24/10/2024



ग्रामीण क्षेत्र हेतु  
प्रौद्योगिकी विकल्प केंद्र (सितारा)  
भारतीय प्रौद्योगिकी संस्थान मुंबई  
पवई, मुंबई-400 076, भारत



Tel : (+91-22) 2576 7870  
(+91-22) 2576 7871  
Fax : (+91-22) 2572 3480

IIT Bombay

Centre for Technology Alternatives  
for Rural Areas (CTARA)

Indian Institute of Technology Bombay  
Powai, Mumbai-400 076, India

Date : 01/04/2021

To,  
The Principal,  
Guru Gobind Singh College of Engineering and Research Centre (GCOERC),  
Khalsa Educational Complex, Guru Gobind Singh Marg,  
Wadala-Parhardi Road, Indira Nagar Annexe,  
Nashik, Maharashtra  
Pin Code – 422 009

**Sub.** : Proposal for collaborative work between GCOERC and RuTAG, IIT Bombay

Rural Technology Action Group (RuTAG) is a brain child of the Principal Scientific Advisor (PSA) to the Government of India. RuTAG was devised to be a mechanism to achieve rural advancement through S&T interventions. The interventions are essentially demand driven and have focus on problems associated with marginal communities in rural areas.

One of the on-going projects at RuTAG, IIT Bombay is 'Designing of a lift for assisting a Downer Cow'. A 'Downer Cow' is a cow that has developed weak leg muscles due to medical reasons or otherwise, resulting into its inability to stand. The prototype of the 'cow lift' is now ready for field trials. We have identified Nashik as one of the locations for conducting the trials.

In the above context, we learnt that some of the faculty members of Mechanical Engineering Department of your esteemed Institute are already engaged in research work in similar area. In view of the above, we would like to propose collaborative work between GCOERC and RuTAG, IIT Bombay for conducting field trials at Nashik. We propose to start the trials from April 2021.

The names of the faculty members from your institute whom we would like to be associated with this project are - Prof. Sandip S. Patil, Prof. (Dr.) C.D. Mohod and Prof. Vijay B. Sarode. We confirm that the incidental expenses associated with the trials to be conducted will be covered through the project budget.

Requesting you to kindly accept the above proposal and permit your faculty members to participate in our project.

Yours Sincerely,

डॉ. आनंद भा. राव/Dr. Anand B. Rao  
प्राध्यापक एवं विभागाध्यक्ष/Professor & Head  
ग्रामीण क्षेत्र हेतु वैकल्पिक प्रौद्योगिकी केंद्र  
Centre for Technology Alternatives for Rural Areas  
भारतीय प्रौद्योगिकी संस्थान मुंबई  
Indian Institute of Technology Bombay  
मुंबई-४०००७६ /Mumbai-400076

(Prof. Anand B. Rao)  
Head, Centre for Technology Alternatives for Rural Areas (CTARA),  
IIT Bombay  
Ph. No. : +91-22-2576 7877



Guru Gobind Singh Foundation's

## Guru Gobind Singh College of Engineering & Research Centre

(Approved by AICTE, Govt. of Maharashtra & DTE Mumbai, Affiliated to Savitribai Phule Pune University, Pune)

DNV - GL - Certified for ISO 9001 : 2015 Standards, Accredited by NAAC with B + Grade

Khalsa Educational Complex, Guru Gobind Singh Marg, Wadala - Pathardi Road, Indira Nagar Annexe, Nashik -9.  
Ph. : 7768004581/82, 0253 2372766, 2372666. Email : gcoerc.nashik@ggsf.edu.in, Website : www.ggsf.edu.in

Ref:-

Date:-06/02/2022

To,  
Mr. Abhijit Talikoti,  
Kathe Galli ,Nashik.

**Sub:-** Results for Non-destructive Testing using rebound hammer conducted at your site in Kathe Galli..

**Ref:-** Telephonic discussion with Mr. D. S. Desale.

Dear Sir,

We are forwarding the test report of testing consultancy carried out at your site..

**Name of Work** :- Bungalow for Mr. Abhijit Talikoti.  
**Date of Testing** :- 02/02/2022.  
**Grade of Concrete** :- M20 (As per verbal communication with you.).  
**Test Reference** :- IS: 516 (Part 5/Sec4):2018.

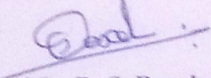
Sr. No	Description	Date of Casting	Rebound Hammer		Indicative Strength (N/mm <sup>2</sup> )	Remark
			Angle of Inclination	Average Rebound Number		
1	Column 1 Supporting Staircase	06/12/2021	$\alpha = 0^\circ$	15.2	7 to 8	Poor Concrete Quality
2	Column 2 Supporting Staircase	06/12/2021	$\alpha = 0^\circ$	17.7	7 to 8	Poor Concrete Quality
3	Column 3 Supporting Staircase	06/12/2021	$\alpha = 0^\circ$	14.9	6 to 7	Poor Concrete Quality
4	Column 4 Supporting Staircase	06/12/2021	$\alpha = 0^\circ$	14.7	6 to 7	Poor Concrete Quality
5	Landing Slab Staircase	06/12/2021	$\alpha = 0^\circ$	19.15	9 to 10	Poor Concrete Quality
6	Waist Slab 1st Flight Staircase	06/12/2021	$\alpha = +45^\circ$	19	7 to 7	Poor Concrete Quality
7	Waist Slab 2nd Flight Staircase	06/12/2021	$\alpha = +45^\circ$	16	6 to 7	Poor Concrete Quality
8	1st Floor Column C13	06/12/2021	$\alpha = 0^\circ$	13.55	6 to 7	Poor Concrete Quality

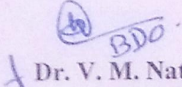
9	1st Floor Column C5	06/12/2021	$\alpha = 0^\circ$	13.3	6 to 7	Poor Concrete Quality
10	1st Floor Column C3	06/12/2021	$\alpha = 0^\circ$	13.45	6 to 7	Poor Concrete Quality
11	Lift Pardi Face 1	06/12/2021	$\alpha = 0^\circ$	12.7	6 to 7	Poor Concrete Quality
12	Lift Pardi Face 2	06/12/2021	$\alpha = 0^\circ$	13.05	6 to 7	Poor Concrete Quality

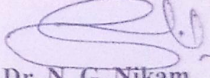
Notes:-

- 1) Above test was carried out by SCHMIDT Concrete Rebound Hammer, HEICO Make.
- 2) Each hammer reading is average of 20 readings at the same location within 1 sq. ft. area.
- 3) Test method followed as per IS 516 (Part 5/Sec 1):2018

Tested by,

  
Mr. D. S. Desale  
In-charge, TOM Lab

  
Dr. V. M. Natraj  
Head, Department of Civil  
Engineering

  
Dr. N. G. Nikam  
Principal, GCOERC



Office : A/4, Manohardeep Building,  
Shivaji Nagar, Jail Road, Nashik Road,  
Nashik - 422 101.  
Email : shekharkatti@gmail.com, Mob. : 9823289870

9325621933

**SOMSHEKHAR G. KATTI**

CIVIL ENGINEER'S AND CONTRACTOR'S

Ref. No. : VC/BUNGLOW/AAT-ASV/MIX DESIGN/51.

Date : 08/02/2022

To,  
The Head of Department  
Civil Engineering,  
Guru Gobind Singh College  
Nashik.

Subject : Mix Design of Grade M20

Reference : As per R.C. Designer, owner recommendation.

Respected Sir,

With reference to above subject of work,

Please do carry out Mix design of concrete grade M20.

The Materials provided for Mix Design are given as below-

1) Cement - Ultra Tech (PPC)

2) Metel  $\phi$  20mm VSI  
 $\phi$  10-12mm VSI

3) Sand - Natural - Sarangpheda (~~40%~~ (60%) ✓  
 $\phi$  Artificial Wash sand (~~60%~~ (40%) ✓ Dr. A. K. Katti

Please do carry out the Mix Design and also let  
us know the charges of Mix Design.

Thanking you,

Yours faithfully  
Somshekhar G. Katti  
Somshekhar G. Katti





GURU GOBIND SINGH FOUNDATION'S  
**GURU GOBIND SINGH COLLEGE OF ENGINEERING & RESEARCH CENTRE**

APPROVED BY AICTE, GOVT OF MAHARASHTRA & DTE MUMBAI, AFFILIATED TO SAVITRIBAI PHULE PUNE UNIVERSITY  
NAAC ACCREDITATION FIRST CYCLE 'B+' WITH CGPA 2.72 IN APRIL 2019, DNV- GL CERTIFIED FOR ISO 9001:2015 STANDARDS



Ref:GCOERC/Offc/2021-22/

Date: 9/3/2022

To,  
Somshekhar G. Katti,  
Civil Engineers and Contractors, A/4,  
Manohardeep Building, Shiwaji Nagar, Jail road, Nashik

**Subject:** Quotation for M20 concrete Mix Design

Kind Attention: Mr. Shekhar Katti (9325621933)

Sir,

With reference to your letter on date 9/2/2022 for above cited subject, we are placed to herewith submit our quote.

Sr.No.	Particular	Quantity	Rate (Rs.)	Unit	Amount	Remark
1	Concrete Mix Design for M20	1 Mix	12000/-	Per mix	12000/-	
	<b>Total</b>				<b>12000/-</b>	

(In Words Rs. Twelve Thousand only)

Terms and Conditions:

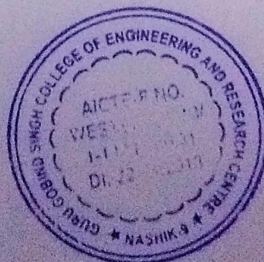
1. In case of change in source and brand of material, grade of concrete and project title each job will treat as new individual mix and will be changed separately.
2. Minimum time required for design mix will be 42 days and testing will be done for 14/28/42 days.
3. Material required for each mix design will be,  
Minimum 200kg of each ingredient (course and fine aggregate)  
Cement 3 bags per mix  
Chemical admixture 2lit per brand mix
4. Blending of ingredients if any (like fly ash etc.) have to be specified and should be supplied in required quantity per mix.
5. Advance 100% payment has to be paid.
6. Materials have to be supplied to department laboratory by the client.

Thanking You

Yours Faithfully

**Br. V.M. Natraj**  
HOD (CE)  
Head

Department of Civil Engineering  
Guru Gobind Singh College of  
Engineering and Research Centre, Nashik



**Dr. N.G. Nikam**  
Principal

**PRINCIPAL**  
GURU GOBIND SINGH COLLEGE OF ENGINEERING  
& RESEARCH CENTRE, NASHIK



# Shree Constructions

## ENGINEERS & CONTRACTORS

4, Canada Crescent Apartment, Sharanpur Road, Canada Corner, Nashik,  
Ph. : 0253-2315386, Mob. : 9527941444, 9422256286, Email : mdlohar@yahoo.com

Ref. No. :

Date :

Date 14-11-2022

To,

Head of the Department

Civil Engineering Department

O/o The Principal, G.C.O.E.R.C.  
Govt. Polytechnic Nashik

SUB: - Mix Design of Concrete for M-20 Grade

SUB: - Construction of Testing Unit (PAC Division) office in the premises of 132 KV Sub station Kedgaon, Dist.: - Ahmednagar

REF: - Letter No. SEC/EHV/CCCMC/NSK/Tender T-07/22-23/1133 Date 22/09/2022

Dear Sir,

With reference to above the above cited work is awarded to us.

Please issue the Mix Design report to us as per following requirements

Grade of Concrete: - M-20

Minimum Cement Content: - As per IS Code

Water Cement ratio: -0.50

Crushed Metal: - 10-12/20mm

Sand: - Artificial Washed Sand

Cement: - Birla OPC53 Grade

Fly Ash: - No Fly Ash

Admixture: - Not required

Method of Production: - By Volume with Concrete Mixer

Method of Placing: - By Dumping Only

Slump required: - 130-140mm

Report may be issued in the name Executive Engineer (Civil) MSETCL CCCM Division, Nashik

Necessary Charges for the same is being paid by us hence it is requested to issue the Mix Design.

Regards,

For Shree Constructions

Prop. M. D. Lohar



**MATERIAL: -**

- 1) 20 mm Metal - 02 Bags
- 2) Artificial Washed Sand - 02 Bags
- 3) Cement- OPC53 - 01 bag



GURU GOBIND SINGH FOUNDATION'S  
**GURU GOBIND SINGH COLLEGE OF ENGINEERING & RESEARCH CENTRE**

APPROVED BY AICTE, GOVT OF MAHARASHTRA & DTE MUMBAI, AFFILIATED TO SAVITRIBAI PHULE PUNE UNIVERSITY  
NAAC ACCREDITATION FIRST CYCLE 'B+' WITH CGPA 2.72 IN APRIL 2019. DNV- GL CERTIFIED FOR ISO 9001:2015 STANDARDS  
Ref. GCOERC/Off / 22-23/4576



Date: 16/11/2022

To,  
Shree Constructions,  
Engineers and contractors,  
Nashik

**Subject:** Quotation for M20 concrete Mix Design

Kind Attention: Mr.M.D.Lohar

Sir,  
With reference to your letter on date 16/11/2022 for above cited subject, we are placed to herewith submit our quote.

Sr.No.	Particular	Quantity	Rate (Rs.)	Unit	Amount	Remark
1	Concrete Mix Design for M20	1 Mix	7000/-	Per mix	7000/-	
<b>Total</b>					<b>7000/-</b>	

(In Words Rs. Seven Thousand only)

**Terms and Conditions:**

1. In case of change in source and brand of material, grade of concrete and project title each job will treat as new individual mix and will be changed separately.
2. Minimum time required for design mix will be 42 days and testing will be done for 7/14/28 days.
3. Material required for each mix design will be,  
Minimum 200kg of each ingredient (course and fine aggregate)  
Cement 3 bags per mix  
Chemical admixture 2lit per brand mix
4. Blending of ingredients if any (like fly ash etc.) have to be specified and should be supplied in required quantity per mix.
5. Advance 100% payment has to be paid.
6. Materials have to be supplied to department laboratory by the client.

Thanking You  
Yours Faithfully

**Dr.V.M.Natraj**  
HOD (CE)

Head  
Department of Civil Engineering  
GCOERC  
Engineering and Research Centre, Nashik



**Dr.N.G.Nikam**  
Principal

PRINCIPAL  
GURU GOBIND SINGH COLLEGE OF ENGINEERING  
& RESEARCH CENTRE, NASHIK