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Certificate No.	:	IN-DL20484261215620V
Certificate Issued Date	:	14-Jun-2023 02:51 PM
Account Reference	:	IMPACC (IV)/ dl1053603/ DELHI/ DL-DLH
Unique Doc. Reference	:	SUBIN-DLDL10536031073054262794 4V
Purchased by	:	BSES YAMUNA POWER LIMITED
Description of Document	:	Article 5 General Agreement
Property Description	:	Not Applicable
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	BSES YAMUNA POWER LIMITED
Second Party	:	AROH FOUNDATION STEM LEARNING PVT LTD
Stamp Duty Paid By	:	BSES YAMUNA POWER LIMITED
Stamp Duty Amount(Rs.)	:	100 (One Hundred only)

Please write or type below this line

AROH FOUNDATION NEW DELHI

STEM LEARNING PRIVATE LIMITED MUMBAI

Statutory Alert:

1. The authenticity of this Stamp certificate should be verified at 'www.shcilestamp.com' or using e-Stamp Mobile App of Stock Holding. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

TRIPARTITE AGREEMNT

BY AND BETWEEN

BSES YAMUNA POWER LIMITED

AND

AROH FOUNDATION

AND

STEM LEARNING PRIVATE LIMITED

DATE: 14th June, 2023

This Tripartite Agreement is made and executed on this 14th Day of June 2023 at New Delhi

BETWEEN

1. **BSES Yamuna Power Limited,** (CIN-U40109DL2001PLC111525) incorporated under the companies Act, 1956 having its registered office at Shakti Kiran Building, Main Road, Karkardooma, Delhi - 110032, acting through its authorized signatory, Ms. Rashmi Dewan, hereinafter referred to as **"BYPL"** which expression shall, unless excluded by or repugnant to the context, be deemed to included its successors, administrator assigned and nominees of **FIRST PARTY.**

AND

2. **AROH Foundation,** a not-for-profit organization incorporated under the Societies Registration Act XXI 1860, vide registration number S40061& bearing CSR Registration No. CSR00000044, having its registered office at 338, Than Singh Nagar, Anand Parbat, New Delhi-110 005, hereinafter called the "2nd Party" or "AROH", represented through Dr. Neelam Gupta (President & CEO AROH Foundation) which expression shall, where the context so admits, include its successors, permitted assignees and representatives.

AND

3. **STEM Learning Private Limited** a company registered under the Companies Act, 2013 vide registration number U80903MH2011PTC250050 having its registered office at ICON, 1205, Marathon Nextgen Campus, Opp. G. K. Marg, Lower Parel (W), Mumbai - 100013 hereinafter called the "3rd Party" or "STEM Learning", represented through Meera Dhanuka, Corporate Partnership Head (North and East Region) which expression shall, where the context so admits, include its successors, permitted assignees and representatives.

BYPL , AROH and STEM Learning shall herein individually be referred to as "Party" and collectively as "Parties".

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WHEREAS

The educationalists often stress that basic science fundamentals should be made clear and liking towards science should be developed among young brains at the school level.

A. WHEREAS Mini Science Centre (MSC) MSC is innovative and interactive teaching aid with a hands-on approach to facilitate the learning process; MSC is also mapped with CBSE and state board curriculums. It consists of 80 Science and Math models. It helps in teaching science and mathematics to school children in a practical way.

B. BSES Yamuna Power Limited under its Corporate Social Responsibility activities as enumerated in Schedule VII of the Companies Act, 2013, with the aim of igniting scientific interest among students, has agreed for financing the project in coordination with the AROH Foundation, (more particularly described in Annexure A and proposal attached). AROH Foundation has the necessary licenses, registrations, infrastructure, expertise and experience required for carrying out and providing facilities for the CSR related objectives of the programme (hereinafter referred to as the Project).

C. AROH Foundation, is a not-for-profit organization incorporated under the Societies Registration Act XXI 1860, vide registration number S40061& bearing CSR Registration No. CSR00000044. AROH Foundation, 2nd Party, has collaborated with M/s STEM Learning Private Limited (3rd Party) to ensure systematic delivery and installation of the models for the Mini Science Centre (MSC) at 15 Government schools in the state of New Delhi on the project section of BSES Yamuna Power Limited (1st Party). The two verticals are M/s STEM Learning Private Limited which is a commercial entity and AROH Foundation, is not-for-profit organization that provides facilitation at all the field level and programmatic support to the projects and donors.

D. The AROH Foundation, has come up with a project for setting up of 15 Mini Science Centre and BSES YAMUNA POWER LIMITED is providing financial assistance of Rs 80,27,775/- all inclusive for setting up of 15 number of Mini Science Centre (MSC) in 15 Government Schools in East and Central, New Delhi under CSR programme of BSES YAMUNA POWER LIMITED, as per the implementation mechanism and payment terms and conditions set, out herein under as project under its Corporate Social Responsibility Activity. The costs of

the project include fixed cost and operational costs as detailed and annexed hereto as annexure A along with the proposal and forming an integral part and parcel of this Agreement.

E. BSES Yamuna Power LTD has approved the Project cost of Rs 80,27,775/- all inclusive for setting up of 15 Mini Science Centre (MSC) class rooms in 15 Government schools in East and Central, New Delhi and the CSR Partner, AROH Foundation, to implement the Project.

D. The project will be CSR Project of BSES Yamuna Power Limited implemented through AROH Foundation, under Section 135, read with Schedule-VII of the Companies Act, 2013 and the Companies (Corporate Social Responsibility Policy) Rule, 2014 made thereunder.

NOW THEREFORE, IN RECOGNITION OF THEIR COMMON INTERESTS AND OBJECTIVES, AND IN ORDER TO SUPPLEMENT AND STRENGTHEN THE EXISTING UNDERSTANDINGS AMONGST THE PARTIES WITH RESPECT TO COOPERATION IN UNDERTAKING THE CSR PROJECT THE PARTIES CONFIRM THEIR MUTUAL UNDERSTANDING ON THE FOLLOWING:

1 **PROJECT SCOPE & OBJECTIVE:**

BYPL intends to collaboration with AROH Foundation and M/s STEM Learning Private Limited for undertaking and implementing the "Effective Education for Students" program(herein referred to as "PURPOSE") under Section 135 of the Companies Act, 2013. The Parties herein have come forward and have agreed to participate in the implementation of the "Effective Education for Students" program to ensure the following :-

- Ensure better teacher-student interface.
- Ensure standardization of teaching process through Models.
- Support with basic infrastructural requirements
- Organize workshops for capacitating school staff on various pedagogical skills, usage of modern teaching-learning methodologies etc.

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2 ROLES AND RESPONSIBILITIES OF PARTIES:

2.1 AROH FOUNDATION

(i) To ensure utilization of funds provided by BYPL for the purpose of this Agreement for installing the necessary equipment's in the 15 schools in East & Central New Delhi by 31st March 2024.

(ii) AROH shall be solely responsible to coordinate with STEM Learning & other concerned authorities with regard to fulfil the terms/purpose of this Agreement to support project "Effective Education for Students" in the East & Central New Delhi.

(iii) AROH will ensure that the Project and activities finalized with BYPL are implemented as per the schedule, and shall maintain the quality as agreed upon.

(iv) To Mobilize and deploy qualified and experienced trainers for the programme.

(v) The implementation schedule will be prepared and communicated to BYPL as well as visiting schools so that they are well informed about the services to be made available by BYPL through AROH.

(vi) AROH shall strictly adhere to the schedule made by BYPL. The representative of BYPL may conduct surprise visit to assess services provided through AROH.

(vii) Ensure publicity at various local areas to augment and maximize the reach of the programme by coordinating with elected representatives and concerned officials of respective Schools or such other Govt. officials as may be required from time to time for smooth implementation of the project.

(viii) AROH should inform to BYPL for ensuring proper brand image and visibility of BSES YAMUNA POWER LIMITED's contribution. AROH Foundation, shall display banners at the school / site highlighting BYPL's contribution along with BSES YAMUNA POWER LIMITED name and logo.

(ix) AROH shall maintain asset register for the assets procured from the funds given or handed over by BYPL. The ownership of the assets would be with the school where they are installed . In the event of disposal of the assets, notification has to be provided to the funding partner BYPL.

(x) AROH shall maintain records of beneficiaries and continuously track monthly progress of the project. Students needing further help to be monitored.

(xi) Submit quarterly Usage reports to BYPL regarding the progress of the project. These will include activities completed and results achieved, accompanied by photographs.

(xii) The Final Comprehensive Completion Report of the programme/project will be

submitted by the AROH, on completion of the programme incorporating scope of work met, benefits achieved, financial details mentioned and recommendations made by the AROH, along with photographs, videos etc.

2.2 **BSES YAMUNA POWER LIMITED**

(i) BYPL will provide fixed amount of Fund (Fund) i.e. Rs 80,27,775/- to the AROH which shall be utilized by the them only towards specific project "Effective Education for Students" (herein after referred to as "Purpose") in collaboration with STEM Learning.

(ii) The assets funded by BYPL will belong to the school where the MSC is setup.

(iii) Depute its representative(s) and external experts to visit the "Effective Education for Students" – Mini Science Centre (MSC) Project at such intervals as it may deem necessary for conducting audits.

(iv) Will jointly review with AROH, quarterly progress of the project and convene at least one detailed review meeting every quarter.

2.3 STEM LEARNING PRIVATE LIMITED

(i) Will provide 80 Models for MINI SCIENCE CENTRE (MSC) and its installation at the 15 Government schools.

(ii) Will provide technical support for teachers training at the schools and submitted the reports on monitoring & evaluation of the project to AROH.

3. **3.1 TERMS OF PAYMENT**

a) The total sanctioned project amount is **Rs. 80,27,775 (Eighty lakh twenty seven thousand seven hundred and seventy five only)** all-inclusive for a period of 12 months commencing from the signing of this agreement.

b) BSES Yamuna Power Limited will provide funds of **Rs. 80,27,775 (Eighty lakh twenty seven thousand seven hundred and seventy five only)** all-inclusive to AROH Foundation, to implement the project from the start date of project i.e., 14.06.2023. The payment schedule is given below:

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1st Installment	50,00,000	On signing of MOU and work order
2nd Installment	20,00,000	On completion of MSC installations in 15 schools
3rd Installment	10,27,775	On submission of final report incl. Baseline survey report

The maximum financial implication to the 1st party for the project shall be limited to **Rs. 80,27,775 (Eighty lakh twenty seven thousand seven hundred and seventy five only)** all inclusive .

c) The first installment would be advance payment. Second Installment and the installments thereafter shall be released by BYPL on requisition by AROH, with progress report along with fund utilization certificate, along with supporting documents viz. invoices, vouchers etc. The advance will be adjusted against the expenditure statement to be furnished by AROH Foundation to BSES Yamuna Power Limited.

d) BYPL will not provide any additional fund in respect of work done outside the scope of work as discussed in this Agreement and time schedule plan and takes no responsibility whatsoever for such work.

e) Verify and authorize quarterly statement of accounts submitted by AROH Foundation and facilitate payment against such statements by the BYPL.

f) Payments to AROH will be made through Electronic Fund Transfer in the account of AROH Foundation the details of which shall be provided by AROH to BYPL in advance. The budget line items can be re-appropriated with the approved line items with mutual agreement

3.2 TERM

a) This AGREEMENT shall be valid for a period of 12 months commencing from 14.06.2023 and may be extended for further period (s) on mutual consent between the Parties as per terms including financials mutually agreed upon.

3.3 BUDGET

The budget is for 15 Mini Science Centre in 15 Schools					
SR.NO	ITEM	DESCRIPTION	COST	NOS OF SCHOOLS	1Year
1	MINI SCIENCE CENTRE	80 MODELS + 80 USERS PLACARD+ 37 COLOURFUL BACKGROUNDS + 1 SAFETY PLACARD + 1 TEACHERS MANUAL INCLUDES INSTALLATION, DELIVERY & 1st YEARS MAINTENANCE	391,700	15	5,875,500
2	TRAINING OF TEACHERS (TTP)	*TEACHERS TRAINING PROGRAMME -2 (FRESHER TEACHERS TRAINING PROGRAMME - FTTP & REFRESHERS TEACHERS TRAINING PROGRAMME - RTTP)*	47,200	15	708,000
3	MONITORING & EVALUATION	*VISIT IN INDIVIDUAL 15 SCHOOLS TO CONDUCT BASELINE SURVEY*	23,600	15	354,000
4	INFRASTRUCTURE	SET UP OF PLATFORMS & ELECTRIC CONNECTIONS	47,200	15	708,000
TOTAL			**509,700**	**15**	**7,645,500**
5		Admin Cost @5%			382,275
GRAND TOTAL					**8,027,775**

4. ACCOUNTING AND AUDITING

1. AROH shall submit full Accounts of the project in writing taking into account all receipts, payment & commitment incurred for the purpose of the agreement termination. BYPL may carry out an audit of project along with expenditure of accounts.
2. In the event of excess disbursement to AROH, BYPL shall demand recovers from the AROH, such excess disbursement or AROH, will be liable to refund/adjust the excess disbursement within period 30 days of ascertainment of excess disbursement.
3. BYPL shall at its discretion or cause to be undertaken, evaluate the impact of cost effectiveness of the project. Such evaluation shall be carried out quarterly during tenure of agreement. AROH as and when required, shall give BYPL reasonable cooperation to access its record in connection with the agreement.
4. If BYPL finds any errors or inaccuracies in the Accounts & Records of the AROH,

within 30 days of a written demand served by BSES Yamuna Power Limited, AROH shall carry out suitable rectification in its Accounts & Records, and inform BYPL regarding the same.

5. Any information/document/record/details requested by BYPL would be promptly attended by AROH and supplied within a reasonable time frame of 15 days.

1. ANNUAL AUDITED ACCOUNTS OF THE PROJECT

1. AROH, will submit annual audited accounts of the project, each bearing original signatures along with Auditors' Certificate within 2 months of the closure of the project period to BYPL.
2. The annual accounts of the project shall be signed by the Authorized person of AROH and be certified by practicing chartered accountant of an independent firm of professional auditors. This account should bear a certificate from the auditors confirming the total receipt and expenditure in respect of the amount and also to the effect that the amount was accepted in accordance with the terms of the Agreement.

2. REFUND OF UNUTILIZED/UNSPENT FUNDS

Any unspent or unutilized amount, (disbursed earlier by BSES Yamuna Power Limited for the project to the AROH Foundation shall on completion of the project, be refunded to BSES Yamuna Power Limited within 30 days of the completion of the project or termination or the Agreement, whichever is applicable.

4. EQUIPMENT/FIXED ASSETS

Any non-consumable items of equipment/materials contributed or financed by BYPL for the project shall be utilized for the objective for which it is given and shall not be transferred/ disposed off except with express permission/directions of BYPL.

5. TERMINATION

BYPL may terminate this agreement after giving the due notice of one month to the AROH with or without giving any reason. AROH shall not be entitled to payment of

within 30 days of a written demand served by BSES Yamuna Power Limited, AROH shall carry out suitable rectification in its Accounts & Records, and inform BYPL regarding the same.

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any amount by way of compensation for termination of agreement. The Agreement may be liable for termination for following reasons:

1. On completion of the term as stated in Clause 3.2 of the Agreement.
2. From the date of successful accomplishment of the Project as determined by BYPL
3. In the event of unsatisfactory performance of the project by AROH, BYPL may, at its sole discretion and at any time, terminate the agreement and inform the AROH of its decision in writing which shall be final binding on both the parties. The Agreement shall stand terminated on the date as mentioned in written communication.
4. In the event, when the party is found involved in any manner or form of unfair practices or improper utilization/misappropriating the funds /Assets, which belongs to, or has been marked for the Project activities, BYPL may, at its sole discretion and at any time, terminate the agreement and inform the AROH of its decision in writing which shall be final binding on both the parties.

In event of termination for any reason or expiry of the Agreement, AROH shall be liable to refund to BYPL all unutilized fund grants as of the date of termination, status of the project along with all records of utilization/expenditure of Fund Grant immediately and without any protest, demur or objections. AROH shall further indemnify and hold BYPL harmless against any and all claims, losses, or damages arising from or related to such breach and/or termination of this Agreement.

6. CONFLICT OF INTEREST

1. Neither AROH, and STEM Learning Private Limited or their personnel nor their agent shall engage in any personal business or professional activities, during the course of the agreement which conflict with the purpose of the Agreement.
2. AROH and STEM Learning Private Limited shall notify BYPL immediately of any such conflict or suggest/take immediate remedial measure under information to BYPL to ensure that the project is completed as per term agreed upon.

7. MONITORING MECHANISM

A mechanism for monitoring the project shall be developed and established jointly by the Parties. Whenever project-reach drops below 75% of the target, the Parties will jointly review the implementation process and decide on steps to revitalize the coverage.

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8. TAXES

All applicable taxes and duties will be paid / adjusted by the BYPL as per statutory provisions.

AROH will submit Income Tax Exemption certificate in Form 80 G Certificate to BYPL. If 80G Certificate is not applicable to any Company/Organization Tax will be deducted at source as per applicable Income Tax Rate.

9. IPR

None of the Parties shall be able to claim intellectual property rights to the result of the project. All Parties declare full and open access to the knowledge developed through the project to each other. All communications to mass media, representations in public forum will be done by the Parties jointly or with the knowledge of the other Parties.

10. AMENDMENTS

Any further changes/amendments to the terms and conditions of this Agreement shall be done in writing by mutual agreement between all the Parties. Modifications or Alterations to this Agreement can only be made by means of a written amendment executed by an authorized representative of each party.

11. PUBLICITY AND PUBLIC INFORMATION

All publicity handouts, banners, boards etc. will have names of Parties appropriately. Any news release, public announcements, advertisement of publicity proposed to be released Party concerning this Agreement shall be subject to the prior written approval of BYPL.

12. COMMUNICATION & INFORMATION

All project-related communications will be in the form of e-mails, telephone meetings and meetings at the premises of either of the Parties. All-important communications, particularly those having a bearing on the terms of the Agreement, reports etc. will be dealt only through the following designated persons nominated by the respective Parties:

- AROH Foundation Shilpa Jain, Sr Programme Manager

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- STEM Learning: Meera Dhanuka, Corporate Partnership Head(North and East Region)
- BSES Yamuna Power Limited: Rashmi Dewan, Vice President CSR

13. PROJECT STEERING COMMITTEE

Project Steering Committee Meetings shall be held at least once in every quarter. A minimum of four members, two representing AROH Foundation and remaining two representing BSES Yamuna Power Limited and STEM Learning, out of the following officials, presence of one member from each party shall form the quorum for such meetings:

- Shilpa Jain, Sr.Program Manager, AROH Foundation
- Dr. Neelam Gupta, President & CEO, AROH Foundation
- Vikash Panchal, Operation Manager, STEM Learning
- Meera Dhanuka, Corporate Partnership Head (North & East Region), STEM Learning
- Kriti Khanna, Deputy General Manager-CSR, BSES Yamuna Power Limited
- Vinod Kumar Yadav, Assistant Finance Officer-CSR, BSES Yamuna Power Limited

Reporting and control will be concurrent with the certification on agreed key indicators of the project.

14. GENERAL

1. Nothing contained in this agreement shall be construed to have effect as continuing a relationship of employer-employee or principal agent between BSES Yamuna Power Ltd. and AROH Foundation and STEM Learning Private Limited

2. AROH Foundation and STEM Learning Private Limited shall be responsible for all acts as omission of its staff or any person, engaged by AROH Foundation and STEM Learning Private Limited whether or not in the cause if implementing the project as for the help, safety in security of such person of entities in their preparation. During the implementation of any activity, the expenditure on photographs and videography and other related material should be borne by the AROH Foundation and no extra payment on this account shall be made by BSES Yamuna Power Ltd.

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3. Photography of the work execution at site to be developed by the AROH Foundation and the same to be forwarded in soft format to BSES Yamuna Power Ltd. project coordinator/ in-charge.

4. BSES Yamuna Power Ltd. may modify/close the Agreement in case the Company's responsibility for CSR goes down or goes negative on crystallization of profit for the year 2023-24 by giving one-month notice.

15. CONFIDENTIALITY OF INFORMATION AND SECRECY

1. The parties undertake that during the terms of this agreement and any subsequent agreement, it shall keep in confidence proprietary information received from the other party and shall not disclose it to any third party, excepting their authorized representatives unless such disclosure of use is specifically authorized in writing.

2. Neither party shall use proprietary information received from the other party for any purpose other than the objective and task agreed between the parties.

16. DISPUTE RESOLUTION & JURISDICTION OF COURT

Any dispute or differences arising out of or connection with this agreement, in the first place to the extent possible, be resolved amicably between the Parties and if such reference for amicable discussion fails, on completion of 30 (thirty) days from the time it is first referred by one Party to the other, then either party may seek resolution to the dispute before the court of competent jurisdiction at New Delhi.

17. INDEMNIFICATION

The AROH & STEM Learning hereby agrees and undertakes to indemnify and hold harmless BYPL, its directors, officers, employees and agents from and against any and all claims, causes of action, liabilities and consequences (including, without limitation, attorney's fees) which arise directly or indirectly from any breach of this Agreement or any negligent or willful act, omission or misconduct, misrepresentation, cheating by the defaulting party or any of its personnel or agents. For the sake of clarity, the foregoing indemnity provisions shall

also be applicable to any loss, damages, cost, suits, expenses (including without limitation any legal fees and expenses) or claims arising from (a) violation of applicable laws; and (b) breach of confidentiality and IPR obligations. This clause shall survive termination of the Agreement.

18. CHANGE IN LAW AND FORCE MAJEURE

1. If any of the provisions of this agreement is rendered void or incapable of implementation due to change in applicable laws, the Parties shall negotiate in good faith and replace such void/ un-implementable provisions with such new provisions which resemble the original understanding of the Parties as closely as possible and are not in conflict with the applicable law.

2. A Party shall be excused from the performance or punctual performance of its obligations under this agreement to the extent that such performance is wholly or partly prevented, hindered or delayed by any event or circumstance or combinations of events or circumstances that is beyond the reasonable control of a Party and which is unavoidable notwithstanding the reasonable care of the Party affected ("**Force Majeure Event**"). A Party affected by a Force Majeure Event shall:

a. Notify the other Party in writing of such Force Majeure Event within seven (7) days of the occurrence of such Force Majeure Event; and
b. Use reasonable efforts to mitigate the effect thereof upon its performance of the agreement and fulfilment of its obligations under the agreement.

3. If the Force Majeure Event continues for a cumulative period of one hundred and eighty (180) days or more, the agreement may be terminated by either Party by giving a notice of thirty (30) days

IN WITNESS WHEREOF the Parties have signed this AGREEMENT on the day, month and year written above.

For and on behalf of BSES Yamuna Power Limited	For and on behalf of AROH Foundation	For and on behalf of STEM Learning Private Limited
(RUCHMI DEWAN)	SHILPA JAIN	VIKASH AGRAWAL
Ruchmi Dewan Vice President Head Corporate Social Responsibility BSES Yamuna Power Ltd		

Witnesses:

1. (KRITI KHANNA)

2. SURENDER SINGH

ANNEXURE A

Background and Project Need

The education system in India is undergoing a transformational process with special emphasis on Science and Math's education. Science education in India is faced by various practical challenges today. The first and the most basic problem that has persisted and resisted solution since early education, is our inability to ease the fear of difficult subjects such as science and math's and make it simple and fun so as to help retain the knowledge and strengthen the foundation of the child for future.

Science is knowledge about the material, natural world. It is knowledge produced from systematic observation, measurement, experimentation, exploration, and speculation and theorization about natural objects, their properties and their interactions. Whether the topic of forces in Physics or the solubility of substances in water from Chemistry, or germination in Biology, the science curriculum directs attention to the material world, to things and processes in it; about which it would like children to learn—to notice, name and think about things based on concepts and theories that characterize these disciplinary approaches, further more mathematics establishes the foundation for calculation is a part of everyday life

However, disciplinary approach is essential in learning BUT it is also imperative to ensure that we make the subject interesting; as, it is a challenge to large percentage of children to comprehend the formulas and equations. This not only limits the learning of students about science & Math's but also lessen the interest of children in these subjects and a fear psychosis is created in their minds for these subjects.

Our honorable Prime Minister during the 104th Indian Science Congress on 'Science and Technology for National Development, emphasized that the government is committed to support the different streams of scientific knowledge from fundamental science to applied science with an emphasis on innovations.

Prime Minister instituted the concept of 'scientific social responsibility'. Underlining the need to inculcate the concept of 'scientific social responsibility (SSR)', akin to corporate social responsibility, PM Shri Modi ji put the impetus on corporates to actively participate in developing science and technology centres across India.

Mini Science Centre – (MSC) supports and encourages the studentsto develop aptitude & skills. Science activities done to stimulate curiosity, provide practical opportunitiesto explore a concept in easy ways, develop appropriate hands on experience in understanding science anditsconcepts which is sadly absent today across all our education syllabus. More so with inadequate teaching staff in rural, municipal schools which are for the underprivileged children adds to the existing challenge in the education system.

MSC models are approved by ***7 SCERT***- *Maharashtra, Goa, Chhattisgarh, Delhi, Odisha, Nagaland and Jammu & Kashmir* for their alignment with the curriculum and the approvals by the SCERT's of Andhra Pradesh, Telangana and Karnataka are awaited for approval.

Project Summary

Mini Science Centre (MSC) is an educative, innovative and systemic instrument designed to revolutionize science & math's education that makes learning simpler and accessible. It is a catalytic channel that is interactive, engaging & fun way of learning technique aimed to raise awareness, grasp the information & strengthen the aptitude of children; furthermore, MSC supports the teachers in teaching - with a focus on concepts from science & math's. Mini science Centre has a range of *80 table top working models with 37 back-drops and manuals in regional language* to provide hands-on experience for learning/teaching Science and Mathematics for Class 5 through 10.

MSC will be a permanent and integral part of the school and academics right from its installation.

The models designed for MSC forms the basis for effective education and better understanding of the academic concepts and their practical applications. Principally these models are ....

- For all students from standard 5 to 10
- Intentional and standards-based
- Active, interesting, and relevant to students
- Reflect current research and practices that are curriculum based
- Age-level appropriate
- Integrate skills from different subjects of Science and Math's
- Incorporate staff training in science and Math's teaching
- Based on ongoing assessment of student needs and progress

Post Installation

Expected outcome of the program

- Aptitude of students for learning science and **mathematics** improved by creating simple, child friendly eco system which is fun and enjoyable.
- Empowering teachers with easy teaching aids.
- Improve teaching pedagogy by use of models in conducting the science and math's class through better engagement of teachers in teaching.
- Increased enrolment and interest in STEM-related courses in school.
- Continued participation in STEM programming.
- Increased self-confidence in tackling science & Math's classes and projects.
- Shift in attitude about careers in STEM.
- Increased test scores as compared to non-participants.
- Increased general knowledge of science & math's-based concepts.
- Gains in 21st century skills, including communication, teamwork, and analytical thinking.
- Higher likelihood of graduation and pursuing a STEM career

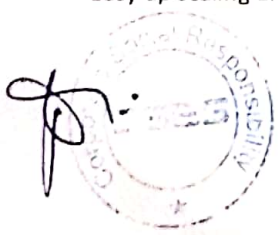
Project Location & Support Request

The proposed project will be executed in 15 identified schools that are in East and Central Delhi.

Branding & Visibility – Mini Science Centre provides immense visibility and branding for the sponsor partner. Starting from the entrance of the centre to the backdrops and reference leaflet, the name and logo of the sponsor partner is inscribed. Each model is also labelled with the corporate partner's name and logo.

Salient Points of MSC

- Owned by school from day 1.
- Fixed Infrastructure
- 24 X 7 accesses to students and teachers.
- In school program as it's based within the school premises.
- 80 plug and play models + 40 backdrops -Mapped to 150+ concepts of Math & Science.
- Student's analytical skills developed to enhance constructive imagination.
- Certified by 7 SCERTS- Goa, Chhattisgarh, Maharashtra and Jammu & Kashmir, Delhi, Odisha & Nagaland
- Empowerment of teachers for sustainability by way of Peer lead teachers training.
- 2- Teachers Training Program – specially designed training to ensure comfort and ownership from day 1
- 2 - Monitoring & Evaluation to capture data so as to ensure proper reporting to donors.
- Easy up scaling and replication.



SWOT Analysis

STRENGTHS (Internal factors) Timely set up of MSC. 80 Models& backdrops aligned with curriculum. Structured TTP. Planned Follow-up M&E Process. WhatsApp Group for better connectivity & response. Vibrant Volunteer	**WEAKNESS (Internal factors)** Probable delay in delivery in models for MSC. Engagement programs.
STRENGTHS (EXTERNAL FACTORS) Only structured program that has been certified by 7 SCERTS aligning with educational curriculum. Trust of more than 150 donors. Successfully implemented Program Pan India in 23 states in more than 1900	**WEAKNESSS (EXTERNAL FACTOR)** School withdrawal or no support. Non-Availability for training on scheduled dates.
OPPORTUNITY (INTERNAL FACTORS) Constantly up grading its process and offerings. Constant development of new modules.	**THREAT (INTERNAL FACTORS)** None, as the organization is managed by professionals and overseen daily by its Founder and MD Successfully implemented Program
OPPORTUNITY (EXTERNAL FACTORS) To constantly better our TTP and M&E by learning's, experience and donor value addition. Successfully implemented Program	**THREAT (EXTERNAL FACTORS).** Probable non-acceptance of additional responsibility by school administration. Probable delay in taking ownership

Tentative Time line Plan

PO & Contract.	School Identification	Installation	1 TTP	1st Follow-up	2nd TTP	Maintenance	2nd M&E. (Annual Report)
1st week	Within 2 -3 weeks from PO.	3 weeks from school identification on & Closure.	15to20 Days from Installation.	45 days from 1st TTP	15-20th Day from 1st Follow-Up.	20 to 25 weeks from Installation	35th to 40th week from Installation

Programmatic Sustainability

The programmatic sustainability is achieved by undertaking the following actions:

- Mini Science Centre model is replicable and scalable program.
- Zero Operation Cost.
- MSC enhances the very basic requirement of the schools to support its existing syllabus.

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MINI SCIENCE CENTRE
Powered by STEM Learning

List of 80 Exhibits				
Sl. No.	Exhibit	Image	Concepts	CBSE Board Mapping
1.	Constellation Viewer		Identification and study of Indian constellations About Constellations Stars Pattern	i)Std 8'th-17.Our Universe
2.	Newton's Disc		White light is made up of 7 colours(VIBGYOR). Splitting of white light.	i)Std 7'th-15.Light ii)Std 8'th-16.Light iii)Std 10'th-11.The Human Eye and the colourful world
3.	Colour Shadow		Combinations of colour lights. Additive mixture of colour. Primary colours.	i)Std 6'th-11.Light, Shadows and Reflection
4.	Periscope		Application of laws of reflection. Angle of incidence and angle of reflection	i)Std 6'th-11.Light, Shadows and Reflection ii)Std 7'th-15.Light iii)Std 8'th-15.Light
5.	Kaleidoscope		Multiple reflection. Symmetric images. Patterns due to reflection	i)Std 6'th-11.Light, Shadows and Reflection ii)Std 6'th-13.symmerty (Math's) iii)Std 7'th-15.Light iv)Std 8'th-16.Light
6.	Laws of Reflection		Laws of reflection for plane mirror. Angle of incidence = angle of reflection.	i)Std 6'th-11.Light, Shadows and Reflection ii)Std 7'th-15.Light iii)Std 8'th-16.Light iv)Std 10'th-10.Light - Reflection and Refraction

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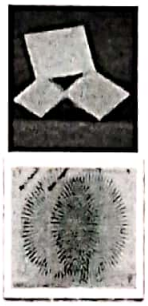
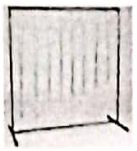
7.	Corner Mirror		Multiple reflection. Image formula (N=360/A - 1) Angled mirrors.	i)Std 6'th-11.Light, Shadows and Reflection ii)Std 7'th-15.Light iii)Std 8'th-16.Light
8.	Infinity Tunnel		Multiple reflections. Image formation in parallel mirrors.	i)Std 6'th-11.Light, Shadows and Reflection ii)Std 7'th-15.Light iii)Std 8'th-16.Light
9.	Magic Water Tap		Optical Illusion. Refractive index of medium, refraction	i)Std 10'th-10.Light - Reflection and Refraction
10.	Total Internal Reflection.		Total internal reflection, bending of light ray. Optical fibre	i)Std 10'th-10.Light - Reflection and Refraction
11.	Fun with Magnets		Types of magnets Magnetic field and properties of field lines.	i)Std 6'th-13. Fun with Magnets ii)Std 10'th-13.Magnetic effects of electric current ii)Std 10'th-13.Matter in our surroundings
12.	Law of Inertia		Newton's first law. Inertia is opposing change in state of rest.	i)Std 9'th-9.Force and Law of Motion

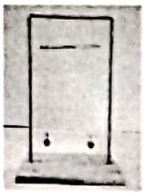
13.	Circle and Ball		Newton's first law. Inertia is opposing change in motion. Centripetal force.	i)Std 9'th-9.Force and Law of Motion
14.	Action and Reaction		Newton's 3rd law of motion. For every action there is equal opposite and reaction	i)Std 9'th-9.Force and Law of Motion
15.	Parrot in the Cage		Persistence of vision. Frames per second. The basic concept of animation.	i)Std 8'th-16.Light
16.	Zoetrope		Persistence of vision. Frames per second. The basic concept of motion picture.	i)Std 8'th-16.Light
17.	Pin screen		Pressure Inverse relation of Pressure Area Representation of pixels	i)Std 9'th-9.Force and Law of Motion
18.	Floating Ball		Bernoulli's principle. Pressure difference and lift.	i)Std 7'th-8.Winds, Storms and Cyclones

19.	Floating Fan		Bernoulli's principle. Air pressure difference	i)Std 7'th-8.Winds, Storms and Cyclones
20.	Tornado		Atmospheric disturbances, currents, storms. Vortex of wind.	i)Std 7'th-8.Winds, Storms and Cyclones ii)Std 8'th-15.Some Natural Phenomena
21.	Hand Pump		Application of pressure to pump water. Pressure-volume relation.	i)Std 7'th-11.Transportation in Animals and Plants ii))Std 10'th-6.Life Process
22.	Anamorph		Perspective, Viewpoints Illusion and Graphical projection	Std. 10 Chapter. 11. The Human eye and The colourful Word
23.	Floating Magnets		Properties of magnet. Attraction in opposite poles and repulsion in like poles	i)Std 6'th-13. Fun with Magnets ii)Std 8'th-11.Force and Pressure
24.	Magnetic Field Tube & Immiscible Fluid		Magnetic field and properties of magnets. Density of liquid	i)Std 6'th-13. Fun with Magnets ii)Std 10'th-13.Magnetic effects of electric current ii)Std 10'th-13.Matter in our surroundings

25.	Moment of inertia		Moment of Inertia Rotational Inertia. Distribution of mass.	Std. 10 Chapter. 6. Force and Pressure
26.	Lazy Tube		Magnetic Field and Forces, Eddy current, Lenz Law.	i)Std 6'th-13. Fun with Magnets ii)Std 10'th-13.Magnetc effects of electric current
27.	Hyperbola		Conic sections. Shape of hyperbola.	i)Std 8'th-16.Light (Persistence of vision)
28.	Magnetic effect of electric current		Magnetism Magnetic effects of electric current. Compass deflection. Oesterd's experiment	Std. 10 Chapter. 13. Magnetic Effect of Electrical Current
29.	Pythagoras Model & Moire Pattern		Pythagoras theorem and Interference of Light	i)Std 7'th-6.The Triangle and its Properties ii)Std 9'th-9.Areas of Parallelograms and triangles iii)Std 10'th-6.Triangles Std 10. Chapter. 10. Light-Reflection and Refraction
30.	Elliptical Carrom Board		Conic sections. Properties of ellipse.	i)Std 8'th-13.Sound ii)Std 9'th-12.Sound

31.	Two Congruent Right Triangles		Comparison of area of different geometric shapes. Congruent shapes.	i)Std 6'th-5.Understanding Elementary Shapes ii)Std 7'th-11. Perimeter and Area
32.	Area of a Circle		Simple illustration of derivation of area of circle	i)Std 6'th-5.Understanding Elementary Shapes ii)Std 7'th-11. Perimeter and Area iii)Std 10'th-12.Areas related to circle
33.	$(a+b)^2$ $=a^2+2ab+b^2$		Geometric illustration of basic algebraic identity.	i)Std 7'th-12.Algebraic Expression ii)Std 8'th-19.Algebraic expression and Identities iii)Std 9'th-2.Polynomials
34.	$(a+b+c)^2$ = $a^2+b^2+c^2+2ab+2bc+2ca$		Geometric illustration of basic algebraic identity.	i)Std 7'th-12.Algebraic Expression ii)Std 8'th-19.Algebraic expression and Identities iii)Std 9'th-2.Polynomials
35.	a2-b2=(a+b) (a-b)		Geometric illustration of basic algebraic identity.	i)Std 7'th-12.Algebraic Expression ii)Std 8'th-19.Algebraic expression and Identities iii)Std 9'th-2.Polynomials
36.	Sum of the angles of a triangle		Elementary theorem of math. "Sum of all three angles of any triangle=180 ° Linear pair.	i)Std 6'th-5.Understanding Elementary Shapes ii)Std 7'th-6.The Triangle and its Properties

37.	Tangram		Interesting tiling puzzle. Basic geometric shapes.	To all standard
38.	Parking Puzzle & T puzzle	 	Mathematical logic Algorithm Brain Teaser Tiling Puzzle	To all standard
39.	Organ pipes		Sound of different frequencies and wavelengths. Musical notes.	i)Std 8'th-13.Sound ii)Std 9'th-13.Sound
40.	Area of rhombus		Simple illustration of derivation of area of rhombus	Std. 10 Chapter. 6. Area and mensuration
41.	Transverse wave pendulum		Mechanical wave. Basic concepts of transverse wave. Actual Representation of vibrating particles and propagating wave	i)Std 8'th-13.Sound ii)Std 9'th-13.Sound
42.	Area of triangle		Simple illustration of derivation of Area of Triangle	Std. 10 Chapter. 6. Area and mensuration

43.	Area of parallelogram		Simple illustration of derivation of area of parallelogram	Std. 10 Chapter. 6. Area and mensuration
44.	Coupled Pendulum		Resonant frequency. The resonant frequency depends on the pendulum's length. Longer pendulums have lower frequencies	i)Std 6'th-10.Motion, and Measurement of Distances ii)Std 7'th-13.Motion and time
45.	Solar Light		Conversion of solar energy into electricity. Application of renewable energy sources Solar panel, semiconductors.	i)Std 10'th-14.Sources of Energy
46.	Wind Mill		Working of wind mill. Conversion of wind energy into electricity.	i)Std 10'th-14.Sources of Energy
47.	Shape of earth due to rotation		Shape of earth Rotational force Centrifugal force	Std. 10 Chapter- 6.Gravitation
48.	KE PE Track		Conversion of energy. Potential and Kinetic energy.	i)Std 6'th-10.Motion, and Measurement of Distances ii)Std 7'th-13.Motion and time iii)Std 9'th-11.Work and energy

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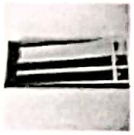
49.	Loop The Loop		Conservation of energy. The minimum speed necessary to complete the loop without falling.	i)Std 9'th-11.Work and energy
50.	Rope Puzzle		Logic and Mathematical shapes study of surfaces	to all standard
51.	Refraction Cylinder		Refraction of light Alphabet symmetry	Std. 10 Chapter. 10. Light-Reflection and Refraction
52.	Newton's Cradle		Conservation of energy, conservation of momentum and friction	i)Std 9'th-9.Force and Law of Motion
53.	Centrifuge Puzzle		Centripetal and Centrifugal force.	i)Std 5'th-11.Sunita in space ii)Std 9'th-8.Motion ,10.Gravitation
54.	Hand Battery		Electric potential difference. Electric battery. Chemical effect of electric current	i)Std 10'th-3.Metals & Non - Metals
55.	Periodic Table		Atomic Number and Periodic Classification of Elements	Std. 10 Chapter. 5 Periodic Classification of Elements

56.	Cone Run Uphill		Centre of mass.Gravity pulls on the centre of mass of objects.	i)Std 9'th-10.Gravitation
57.	Tower Of Pisa		Center of mass. Centre of gravity. Gravitation. Stability of structure.	i)Std 9'th-10.Gravitation
58.	Lever		Simple Machines Lever. Type of lever.	i)Std 9'th-11.Work and energy
59.	Pulley Block		Pulley- simple machine. Combination of pulley. Mechanical Advantage.	i)Std 9'th-11.Work and energy
60.	Wheel and Axel		How it is easy to rotate wheel when force is applied at a point distant from center.	i)Std 9'th-11.Work and energy
61.	Heat Absorption		Black Body, Heat Absorption and Reflection, Colour Temperature	Std. 7 Chapter -4.Heat
62.	Day and Night		Cycle of day and night on earth. Shadows. Seasons, angle of tilt.	i)Std 8'th-17.Stars and The Solar system

63.	Viscosity Tube		Buoyancy. Viscosity. Density	i)Std 5'th-7.Experiments with water ii`)Std 9'th-10 Gravitation
64.	Rock and Minerals		Different types of rock and mineral samples. Difference between them.	i`)Std 9'th-14.Natural Resources
65.	DNA		Double helix structure of DNA. A-T and G-C pairs.	i`)Std 10'th-9.Heredity and Evolution
66.	Lateral Shift		Refraction of light, deviation in path.	Std. 10 Chapter. 10 Light - Reflection and Refraction
67.	Force & types of friction		Friction, speed due to surface texture. Rolling Friction.	Std. 9 Chapter-11. Work And Energy
68.	Funny mirrors		Distorted mirror. Convex and concave mirrors	Std. 10 Chapter. 10 Light - Reflection and Refraction
69.	Marble Slide		Conservation of momentum.	Std. 9 Chapter- 9.Force and laws of motion

70.	Resonance		Frequency and length of object, resonating frequency.	Std. 9 Chapter-. 4. Sound
71.	Weight Illusion		Weight Illusion Volume and Density	Std. 9 Chapter- 1.Matter - Its Nature & Behaviour
72.	Area of Trapezium		Area of trapezium using parallelogram	Std. 10 Chapter. 6. Area and mensuration
73.	Sum of angles of Quadrilateral		Sum of angles of Quadrilateral Complete angle	i)Std 6'th-5.Understanding Elementary Shapes ii)Std 9'th-6.The Quadrilateral
74.	(A+B)^2 - (A-B)^2 = 4AB		Geometric illustration of basic algebraic identity.	i)Std 7'th-12.Algebraic Expression ii)Std 8'th-19.Algebraic expression and Identities iii)Std 9'th-2.Polynomials
75.	Electric bell		Electric Circuit, Electromagnet and magnetic effects of current	1) Std - 7th – 14 Electrical currents and its effects. 2) Std - 10th - 12. Magnetic effects of Electric Current.
76.	Human Torso		Human Body Anatomy Organs Functions of Body parts	Std 6 Chapter 8 Body Movements

77.	Ear & Eye		Sense organs Functions of body parts Vision Hearing	Std 5 Chapter 1 Super Senses
78.	Human Joints		Types of joint In human body Bones and ligaments	Std 6 Chapter 8 Body Movements
79.	Plant Cell		Eukaryotic cells Difference between cells Parts of cell	Std 9 Chapter 5 The Fundamental Unit of Life
80.	Animal Cell		Difference between cells, Parts of cell	Std 9 Chapter 5 The Fundamental Unit of Life