KAMALA NEHRU COLLEGE (University of Delhi)

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August Kranti Marg, New Delhi – 110049 Phone: 011-26494881, Telefax: 011-26495964 E-mail: kamla.nehru_du@hotmail.com



कमला नेहरू कॉलेज (दिल्ली विश्वविद्यालय) रा. मू. एवं प्र. प. द्वारा 'ए' श्रेणी प्रत्यायित अगस्त क्रांति मार्ग, नई दिल्ली – 110049 दूरभाष: 011-26494881, टेलीफैक्स: 011- 26495964

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SUPPORTING DOCUMENT FOR 7.1.7

Disabled-friendly, barrier free environment

MOUs



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- 1. MOU with Family of Disabled (FOD) for making newspaper pencil
- 2. MOU with Samarthanam Trust
- 3. MOU with Assistech, IIT-Delhi



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ई-मेल: kamla.nehru_du@hotmail.com

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AGREEMENT

1. This Statement of Work is made on the 13th of August 2019, by and between:

Family of Disabled (FOD), a registered not-for-profit Organization serving persons with disabilities since 1992, having its registered office at B-1/500, Janakpuri, New Delhi 110058, India (referred to as FOD)

Kamia Nehru College (KNC), located at the August Kranti Marg, New Delhi. It was established in the year 1964 and is affiliated to University of Delhi, India. (referred to as KNC)

2. WHEREAS:

- a) FOD is dedicated to the mission of helping disabled people through different sustainable interventions for improving their quality of life, making them self reliant and facilitating their mainstreaming and has come up with its latest project of "Newspaper Pencils" to create livelihood for the disabled people as well as to save the environment.
- b) KNC intends to encourage and support such an intervention of FOD for disabled people as well as for the environment by donating the Newspapers on monthly basis.

3. NOW THIS Agreement WITNESSES AS UNDER:

That the purpose of this Agreement is to determine the roles and responsibilities of the TWO parties vis-a-vis **Newspaper pencils**.

- A date would be mutually decided every month for collection of the newspapers from KNC.
- FOD will arrange its own vehicle and man power for collection of the said newspapers.
- FOD will bear any other overhead expenses borne in collection of the said newspapers.
- KNC Staff members, appointed personnel will cooperate with the FOD Team who would come for collection of newspapers.

4. Period of Performance and terms

This scope of work/assignments is valid for a period of one (1) year with effect from date of sign

 This Agreement shall be in force for a period of one year from the date of its execution, unless terminated earlier by either party. This Agreement may be

Family Of Disabled B-1/500, Janakpuri,

New Delhi-110058

(University of Delhi)

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renewed thereafter for such period of time and on such terms and conditions as may be mutually agreed upon.

 IN WITNESS WHEREOF both the Parties acknowledge that each has fully read and understood this agreement, and intending to be bound thereby, executed this agreement on the date set forth above.

Signed by:

Family Of Disabled 8-1/500, Janakpuri,

For and on behalf of New Delhi-110058

Family of Disabled (FIRST PARTY)

Date: 13- Ang - 2019

Signed by:

For and on behalf of

KAMLA NEHRU COLLEGE

(Second PARTY)

2

(University of Delhi)

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KAMLA NEHRU COLLEGE

Article 5 General Agreement

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Memorandum of Understanding

Between

"Kamala Nehru College", August Kranti Marg, New Delhi 110049

and

"Samarthanam Trust", New Delhi

- 1. The Memorandum of Understanding is made between 'Equal Opportunity Cell & Enabling Unit' of Kamala Nehru College. University of Delhi, whose address is Kamala Nehru College August Kranti Marg, New Delhi 110049. And 'Samarthanam Trust, whose address is A 336, Chattarpur Enclave, Phase 2, Street No. 35, Main Maidan Garhi Road, New Delhi
- 2. The purpose of this MoU is to benefit both institutions through Volunteering at helping the visually challenged students. The volunteers will become buddies to the higher education of the visually challenged students by helping them in reading, writing, and recording notes and preparing assignments.
- 3. The E.O.C. & Enabling Mail of Kamaia Nehru College shall provide volunteers for reading, writing and prepare assignments for visually impaired students on every Saturday.
- 4. 'Samarthanam Trust' shall make sure to provide certificate of appreciation to all volunteers from the Kamala Nehru College, who devote not less than 8 hours within a month.
- 5. 'Samarthanam Trust' shall ensure the management of all materials required for the workshop including space and stationery etc, further more the Trust shall take the responsibility of the safety and security of volunteers in their premises.

This MoU shall be effective from the 1^{et} October 2019 to 30th April 2020.

Authorise Kamala Nehru College

Date:

प्राचार्या / PRINCIPAL कमला नेहरू कालेज / Kamala Nehru College दिल्ली विश्वविद्यालय / University of Delhi अगस्त क्रांति मार्ग / August Kranti Marg नई दिल्ली-110049 / New Delhi-110049

norised signatory



(University of Delhi)

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Memorandum of Understanding

Between

"Kamala Nehru College", August Kranti Marg, New Delhi 110049

and

"INSIDE ME", 90 Narmada Apartments, Alaknanda, New Delhi 110019

- Kars. Att. 1. The Memorandum of Understanding (MoU) is made between 'Equal Opportunity Cell & Enabling Unit' of Kamala Nehru College, University of Delhi, whose address is Kamala Nehru College August Kranti Marg, New Delhi 110049. And 'INSIDE ME' whose address is 90, Narmada Apartments Alaknanda, New delhi 110019.
- 2. The purpose of this MoU is to empower students with visual impairment through an outreach activity of the B.O.C & Enabling Unit volunteers of Kamala Nehru College in theart teaching programs initiated by INSIDE ME.
- 3. E.O.C& Enabling Unit students from the Kamala Nehru College shall be volunteering on every Friday and Saturday from 4:00pm to 5:30pm at JAVA Sadiq Nagar Blind School New Delhi and on every Monday and Saturday from 4:00pm to 5:30pm at IFBA Amar Colony Blind School New Delhi.
- 4. 'INSIDE ME' shall ensure the management of all materials required for the workshop including space, stationary and travelling allowance etc.
- 5. 'INSIDE ME' shall make sure to provide certificate of appreciation to all the volunteersfrom the Kamala Nehru College, furthermore the Trust shall take the responsibility of the safety and security of volunteers in their premises.

6. This MoU shall be effective from the 1st October 2019 to 30th April 2020.

Authorised Signatory

Kamala Nehru College

Date: & 7

प्राचार्या / PRINCIPAL कमला नेहरू कालेज / Kamala Nehru College दिल्ली विश्वविद्यालय / University of Delhi अगरत क्रांति मार्ग / August Kranti Marg नई दिल्ली-110049 / New Delhi-110049

Authorised Signatory INSIDE ME

Date: 1 October 2019

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Between

"Kamala Nehru College", August Kranti Marg, New Delhi 110049

"Samarthanam Trust", New Dethi

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- 2. The purpose of this MoU is to benefit both institutions through Volunteering at helping the visually challenged students. The volunteers will become buddies to the higher education of the visually challenged students by helping them in reading, writing, and recording notes and preparing assignments.
- 3. The E.O.C. & Enabling Main of Kamana Nehru College shall provide volunteers for reading, writing and prepare assignments for visually impaired students on every Saturday.
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- 5. 'Samarthanam Trust' shall ensure the management of all materials required for the workshop including space and stationery etc. further more the Trust shall take the responsibility of the safety and security of volunteers in their premises.

6. This MoU shall be effective from the 3" October 2019 to 30th April 2020.

Authorised Signatory Kamala Nehru College

Date:

प्राचार्या / PRINCIPAL कमला नेहरू कालेज / Kamala Nehru College दिल्ली विश्वविद्यालय / University of Delhi अगस्त क्रांति मार्ग / August Kranti Marg नई दिल्ली-110049 / New Delhi-110049

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ई-मेल: kamla.nehru_du@hotmail.com

Memorandum of Understanding

Between

"Kamala Nehru College", August Kranti Marg, New Delhi 110049

and

"INSIDE ME", 90 Narmada Apartments, Alaknanda, New Delhi 110019

- The Memorandum of Understanding (MoU) is made between 'Equal Opportunity Cell & Enabling Unit' of Kamala Nehru College, University of Delhi, whose address is Kamala Nehru College August Kranti Marg, New Delhi 110049. And 'INSIDE ME! whose address is 90, Narmada Apartments Alaknanda, New delhi 110019.
- The purpose of this MoU is to empower students with visual impairment through an outreach activity of the E.O.C & Enabling Unit volunteers of Kamala Nehru College in theart teaching programs initiated by INSIDE ME.
- 3. E.O.C& Enabling Unit students from the Kamala Nehru College shall be volunteering on every Friday and Saturday from 4:00pm to 5:30pm at JAVA Sadiq Nagar Blind School New Delhi and on every Monday and Saturday from 4:00pm to 5:30pm at IFBA Amar Colony Blind School New Delhi.
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- 5. 'INSIDE ME' shall make sure to provide certificate of appreciation to all the volunteers from the Kamala Nehru College, furthermore the Trust shall take the responsibility of the safety and security of volunteers in their premises.

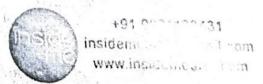
6. This MoU shall be effective from the 1st October 2019 to 30th April 2020.

Authorised Signatory Kamala Nehru College

Date: 27 September 2019

प्राचार्या / PRINCIPAL प्रमाला नेहरू कालेज /Kamaia Nehru College दिल्ली विश्वविद्यालय / University of Dethi अगस्त क्राति मार्ग / August Kranti Marg नई दिल्ली–110049 / New Delhi-110049 Authorised Signatory
INSIDE ME

Date: 1 October 2019



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ई-मेल: kamla.nehru_du@hotmail.com

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AGREEMENT FOR RESEARCH COLLABORATION
Tuly
(hereafter referred to as the "Agreement") is made on this _______date__day of _____month 2021

BETWEEN

Assistech Lab, IIT Delhi is an interdisciplinary group of faculty, research staff and students, engaged in using modern technology for finding affordable solutions in education and mobility of persons with visual impairment

AND

Kamala Nehru College, University of Delhi, established in 1964 is a frontline of 'A' Grade colleges of Delhi University, was accredited by the National Assessment and Accreditation Council (NAAC) in the year 2016.

PRINCIPAL
KAMALA NEHRU COLLEGE
(University of Delhi)
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NEW DELHI-110 049

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STATEMENT OF PROPOSAL

- 1. This collaboration is based on a proposal for the design and implementation of Indoor Navigation Assistance Solution to be implemented at Kamala Nehru College Campus, University of Delhi
- This research project would be based on a pilot installation and study to be carried out in the Ground,
 First and Second floors of the Main building at Kamala Nehru College.
- 3. From the elementary survey at various venues (i.e. hospitals, public buildings and academic institutions), it has been found that wayfinding is a challenge for people with disabilities, especially visual disability. Inadequate and non-strategic placement of signage also adds to this wayfinding challenge. It is further complicated for visitors who are not familiar with the local language and have
- 4. We believe a technology-based solution using smartphones would be able to address this challenge for people with a visual disability (PVDs) and will also be useful to mainstream users.
- An effective indoor wayfinding system depends on formulation of key components that includes: visual
 accessibility, actual and ideal path, decision points identification, strategic inclusion of essential
 information over map, cognitive map modeling of the facility.
- In this project, comprehensive digital mapping will include field survey, area division, information sourcing, mapping and its validation. Further, localization using bluetooth beacons to support real time indoor navigation is planned.
- 7. The key initial objective of this collaboration would be to understand the existing area division, flow patterns, navigation/wayfinding challenges as well as accessibility issues. The aim would be to implement a unique solution that can address the wayfinding challenges. Further, a gradual evolution eliminates the need for major adaptation and retraining requirements of major stakeholders.

IMPLEMENTATION PLAN

- Total duration of the project will be 12 months. The project will be implemented in two phases. Phase
 one will include creating an accessible digital map of the college campus venue. Duration of phase 1 will
 be 2 months. This includes division of area/zone based on their functioning like "Academic,
 Administrative, Classroom, Cafeteria and Lab-etc", field survey, information sourcing, validation and
 annotation over existing venue map.
- 2. Phase two will include identification of locations and installation of bluetooth beacons to support real time navigation. Combined with the annotated digital map in phase 1, this would help solve the independent and real time navigation challenge of all types of visitors keeping PVDs as the central focus. The duration for stage two will be 4 months after completion of phase 1. This phase will also include testing, refinement and validation of the system.
- Final validation reports will be generated including the inputs and feedback from users/students and
 the college staff after successful implementation of the navigation system. Assistech Lab will extend the
 support including service, maintenance and upgrades for 6 months after completion of phase 2.

PRINCIPAL

PRINCIPAL

KAMALA NEHRU COLLEGE

(University of Delhi)

August Kranti Marg

NEW DELNI-110 049

Prof. P.V. Madhusudhan Rao
Prof. P.V. Madhusudhan Rao
Prof. P.V. Madhusudhan Ragarinen of Ragarinen of Ragarinen Ragarinen Ragarinen of Ragarinen Ragarinen

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4. After completion of a total of 12 months, the existing installation and services can be maintained by any third party like Raised Line Foundation (A non-for-profit startup from Assistech Lab, IIT Delhi) or the locally trained staff/students at Kamala Nehru College.

ROLE OF PARTIES

- The contribution of the project would include site survey, training and mapping and implementation of real time navigation system as mentioned previously.
 Role of Assistech Lab, IIT Delhi,
 - i) Provide and resolve any type of technical query related to project
 - ii) Training students/faculty of Kamala Nehru College on field survey and annotation tool
 - iii) Installation testing of beacon based real time navigation
 - iv) Testing and validation report for annotation and navigation application

Role of Kamala Nehru College,

- i) Students of geography may be involved in field surveys & digital mapping as interns/trainees
- ii) Testing and validation report for the navigation application
- iii) Local publicity, outreach and awareness of the project,

Note: Kamala Nehru college will assign a local representative and interested student on this project to deliver on the items listed in its role.

FINANCIAL IMPLICATIONS

The overall proposed cost estimate for the project is as mentioned below,

Type	Size/Nos	Unit Price	Cost is Rs.	Remarks
Research & prototype	design			
Venue mapping service	10,000 sq. m.	@ Rs. 15/sqm.	1,50,000	Includes hosting and maintenance, & security of map data for 1 year
Real Time localization service	60 nodes	@Rs 2500 /node	1,50,000	Beacon purchase, installation, calibration and localization
Contingency cost			50,000	Travel and other
Sub Total cost			3,50,000	
IRD (Institute) overhead (10 %)*			35,000	Research overhead cost
Total project cost			3,85,000	Acceptant overhead cost

^{*}IRD overhead cost is as per institute norms.

The total cost of the project: Rs.3, 85,000 (Three Lakhs eighty five thousand). To initiate the project activity, 30 % of project funding should be released in advance, 50 % after successful completion of phase I and remaining 20 % after the completion of project.

Detailed scope of collaboration, terms and agreementare attached in Annexure-I below*

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ANNEXURE - I

ARTICLE 1: DETAILED SCOPE OF COLLABORATION

- 1.1 Subject to the provisions of this Agreement, the Parties contemplate, agree and undertake to put in best of their endeavor to perform, carry out and accomplish the Research Work to its fullest possible extent in spirit, essence and form.
- 1.2 Each of the Parties individually undertakes and agrees to put their best efforts to carry out and accomplish the specific parts of the Research Work as may be assigned to them by mutual agreement between the Parties.
- 1.3 The Parties do not represent or warrant that the Research Work or any part of it assigned to each of the Parties will be successful in any way or that any specific results will be obtained.
- 1.4 Unless changed by specific written notice given by IITD to the other Parties, the conduct of IITDs obligations and activities under this Agreement shall be carried out under the direction and supervision of a team of faculty members consisting of Prof. P.V.Madhusudhan Rao and Prof. M.Balakrishnan and the team so constituted will be headed by Prof. P.V.Madhusudhan Rao. (hereafter referred to as the PI).
- 1.5 Any research materials of one Party transferred to the other Party in connection with this Agreement may only be used for the Research Work.
- 1.6 Unless the Parties agree otherwise, research materials are to be considered as the "Confidential Information" of the Party providing them.
- 1.7 The Parties from time to time will keep the other Parties informed about the results and outcomes of the work carried out and performed by it under its obligations through their PI and Co-PIs.
- 1.8 If during the course of carrying out the research the Parties consider it advantageous and desirable to amend and modify the scope of the Research Work for better and effective deliverable and outcome, Parties may mutually do so by an amendment.

ARTICLE 2: CONFIDENTIAL INFORMATION

2.1 In this Article Confidential Information means confidential scientific, business or financial data or information owned by the Parties which will be marked as such in writing provided that such information: (a) is not publicly known or available from other sources who are not under a confidentiality obligation to the source of the information (b) is not already known by or available to the receiving party without a confidentiality obligation and (c) is not independently developed by the receiving party.

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2.2 Each of the Parties' acceptance and use of any confidential information supplied by the other Party in the course of the Research Work will be subject to the following: (a) to be considered Confidential Information, all written information must be marked or designated in writing as CONFIDENTIAL by the party providing the information, and oral communications must be reduced to writing within thirty (30) days of the initial communication of the information and such writing must be marked or designated in writing as CONFIDENTIAL and provided to the other Party's PI or Co-PIs, as the case may be.

- 2.3 The PI and the Co-PIs will use reasonable efforts to limit the exchange of Confidential Information.
- 2.4 Where the PI or Co-PIs does accept such information as confidential, he agrees to use the same degree of care to prevent the unauthorized use of the Confidential Information, as the Party supplying would have reasonably taken to prevent its unauthorized use.

ARTICLE 3: ACADEMIC FREEDOM AND PUBLICATION

- 3.1 Nothing in this Agreement will be construed to limit the freedom of Parties or its faculty members and researchers from engaging in similar research made under other grants, contracts, or research agreements.
- 3.2 As a matter of basic academic freedom, the Parties and their faculty members and researchers including the faculty members participating in the Research Work retain the right to publish freely any results of the Research Work provided such publication does not defeat the securing of intellectual property generated through the research.

ARTICLE 4: INTELLECTUAL PROPERTY

4.1 All intellectual properties conceived, discovered and reduced to practice jointly by the Parties in accomplishing the Research Work or as an outcome of the Research Work shall be owned by the IITD.

ARTICLE 5: INDEMNITY

5.1 In this Article "Claim" includes but is not limited to every phase of any lawsuit, loss, claim, damage or liability for death, illness or personal injury of any person (including employees of the Parties), property damage, and/or for infringement of intellectual property rights of a third party. Each of the Parties herein hereby waives any such claim against the other Party.

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5.2 Each party agrees to indemnify, defend, and hold harmless the other Party, and their employees, agents, researchers and students from any Claim arising out of or connected with this Agreement or the work done under this Agreement, except to the extent such claim is due to their negligence or willful misconduct.

ARTICLE 6: REPRESENTATIONS AND WARRANTIES

- 6.1 The parties acknowledge and agree that all the parties herein are academic and research institutions and that the research work is experimental and therefore concerning any results of the research work the parties make no warranties, express or implied.
- 6.2 The parties shall not be liable for any direct, consequential, or other damages suffered by the other party.

ARTICLE 7: TERM AND TERMINATION

- 7.1 This Agreement will remain in effect for 12 months from the date first written above unless terminated sooner or extended in writing signed by the parties following this Agreement
- 7.2 This Agreement can only be terminated before the date mentioned in 7.1 by mutual consent and concurrence.

ARTICLE 8: DISPUTE RESOLUTION

- 8.1 Any disagreement/ difference of opinion/ dispute between the Parties regarding the interpretation of the provisions of this Agreement or otherwise arising from this Agreement and the activities undertaken under this Agreement shall be resolved by mutual conciliation of the Heads of Institutions of the two Parties.
- 8.2 If any dispute remaining unresolved after conciliation as aforesaid, the said dispute shall be resolved by a sole arbitrator appointed by the Heads of Institutions of the two Parties
- 8.3 The arbitration shall be conducted under the provisions of the Arbitration and Conciliation Act, 1996 or any statutory modification / re-enactment thereof
- 8.4 The place of arbitration shall be Delhi and the proceedings shall be conducted in English language.
- 8.5 The award of the arbitrator shall be binding on the Parties.

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Prof. P.V. Madhusudhan Rao
Prof. P.V. Madhusudhan Rao
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ARTICLE 9: HEADINGS

The headings in this Agreement are inserted for convenience of reference only and will not be used in interpreting or construing the provisions of this Agreement.

ARTICLE 10: AMENDMENT

No amendment or variation to this Agreement will operate to change or vary the terms, obligations or conditions hereof except upon mutual agreement by the Parties signed by an authorized representative of each Party.

ARTICLE 11: SEVERABILITY

Each provision contained in this Agreement is declared to constitute a separate and distinct covenant and provision and to be severable from all other separate, distinct covenants and provisions. It is agreed that should any clause, condition or term, or any part thereof, contained in this Agreement be unenforceable or prohibited by law or by any present or future legislation then such clause, condition, term or part thereof, shall be amended.

On Behalf of Assistech Lab, ANSKSIT, IIT Delhi

Signature Rac

Name: Profit Per M. Rap Pro Designation Peoples and Volhi Department Designation (Nothing County)

Department of Design WP Delh

On Behalf of K.N. College, University of Delhi

Name: Dr.Kalpana Bhakuni Designation: Principal,

K.N. College, University of Delhi PRINCIPAL KAMALA NEHRU COLLEGE

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