DVV Clarification for 3.1.1

Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

DOCUMENTARY EVIDENCES

1. Pradhan Mantri Kaushal Vikas Yojana 4.0 (PMKVY 4.0)

2023-24

From: Target Allocation PMKVY4.0 targetallocation_pmkvy4@nsdcindia.org
Subject: Project Sanction Letterl PMKVY 4.0l Special Projectsl Skill Hub Initiative
Date: 3 November 2023 at 8:52 PM
To: Target Allocation PMKVY4.0 targetallocation_pmkvy4@nsdcindia.org
Cc: Vijay Prakash vijay.prakash@nsdcindia.org

Dear Sir/Ma'am,

Greetings from the National Skill Development Corporation (NSDC), New Delhi.

The Ministry of Skill Development & Entrepreneurship (MSDE), Govt. of India, is implementing the flagship skill development scheme of Government of India - Pradhan Mantri Kaushal Vikas Yojana 4.0 (PMKVY 4.0).

With the roll-out of the National Education Policy (NEP) in 2020, there has been a renewed focus on vocational skill training imparted by schools and higher education institutes, thus integrating mainstream academics with practical vocational skill training.

As per your interest for participating under PMKVY 4.0 as a skill hub shared with AICTE, your institution has been allocated **240 targets** for implementing training under PMKVY4.0.

We are starting handholding initiatives through capacity building workshops in parallel for the benefit of all participants. A schedule of such workshops shall be shared with you upon receiving your willingness and Job Role wise demand. Some key highlights in terms of scheme contours, course offerings, etc. is shared below for your ready reference. You may like to write to **@Vijay Prakash** for any queries.

Regards,

PMKVY 4.0 Target Allocation Team

Brief Note on PMKVY 4.0
Pradhan Mantri Kaushal Vikas Yojana 4.0 (PMKVY 4.0) will be implemented between FY 2022-26 with a strong emphasis on making the programme candidate-centric by creating an enabling ecosystem to meet the emerging sectoral needs. More information on PMKVY can be assessed at www.pmkvyofficial.org with guidelines of previous versions of PMKVY.

1. **Objective of the Scheme:**
    a. Promote an enabling ecosystem for the youth to get skilled and choose a career path aligned with their abilities and aspirations.
    b. Enable the delivery of skill training in a market-oriented and demand-driven manner by making the existing skilling ecosystem more flexible, swift, and geared to meet the emerging demand.
    c. Process overhauling of the skill ecosystem by leveraging technology, innovative financing, and digitalization.

2. **Implementation through Skill Hubs:**
    Skill Hubs can be setup in State and Central Government Schools, Higher Educations Institutes (HEIs), Colleges, and Universities (including Skill Universities) with requisite infrastructure for providing Short Term Trainings under PMKVY 4.0.The information on Skill Hub is available on www.pmkvyofficial.org.

3. **Selection of Job Role for Training:**

1. Under PMKVY 4.0, it is proposed to offer various demand-driven and industry linked skilling courses including new age courses like Drone, 3D Printing, Robotics, AI, etc. **Kindly select the job roles mentioned in the attached excel only**

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2. Details of the respective Job Role including the infrastructure requirement, trainer qualification, candidate eligibility, etc. is mentioned in the respective Qualification Pack of the Job Role which can be accessed at www.nqr.gov.in.
3. Equipment specification and other specification details are available on https://admin.skillindiadigital.gov.in/knowledge-bank.

4. **Pre-Requisites for Training:**
   1. **Infrastructure:**
      i. Availability of adequate classroom for theory classes and laboratory depending on the Job Role to be opted. (For e.g., Computer Lab in case of Data Entry Operator). More details are available under the "Training Partner and Centre" section of www.skillindia.gov.in .
      ii. Functional Aadhaar Enabled Biometric Attendance System (AEBAS) registered on the NIC platform.

   2. **Trainer:** Teacher/Trainer available in the own institution with domain experience or certified trainer (list available on Skill India Portal) can also be engaged.
5. **Selection of Candidates:**

1. The scheme targets school/college dropouts, out-of-education, and unemployed youths in the age group of 15-45 years *(refer to Job role age criteria)*.
2. The educational institutions are allowed to train 40% in-school students (their own school or any other school) and 60% must be out of school youth.
3. Eligibility criteria for selection of candidates is defined in the respective course curriculum of Job Role to be offered.
6. **Implementation Modalities:**

a. National Skill Development Corporation (NSDC) is the implementing arm of the Ministry and shall provide all required handholding support and technical assistance in implementation of PMKVY 4.0 in Skill Hubs.

b. The entire training life cycle from enrolment to certification and tracking will be done through Skill India Digital which necessary orientation and handholding support will be provided by NSDC (www.skillindia.gov.in).

c. On-the-Job Training (OJT) has been mandated under the scheme in applicable Job Roles. It shall be the responsibility of the institutions to arrange for OJT in nearby industry or establishments.

d. In case of Skill Hubs or other special circumstances, in districts where OJT is not feasible, project work may be permitted in lieu of OJT.

e. Assessment and certification would be done through the third-party agencies namely, Sector Skill Councils (SSCs) or any other National Council for Vocational Education and Training (NCVET) approved awarding body. The State Education Board/Technical Education Board can also become an awarding body under NCVET.

f. Registration of the Skill Hub (institution) on Skill India Digital with requisite details of available classroom, labs, trainers, etc.

g. Mandatory daily AEBAS attendance of Candidate, Trainer, and Assessor.

7. **The target allocation is for the financial year 2023-24. Hence, the commencement of training should be done as soon as possible**.
8. **Financial Provisions**

a. The training payout to project implementing agency would be as per PMKVY 4.0 i.e.,
   - **Per candidate cost = (No. of Job role Hours) X (Discounted Common Cost Norms Category)**

Discounted Common Cost Norms Category:

S. No.	Category	Updated Base Cost under PMKVY 4.0 (discounted by 33.60%)
1	I	32.54

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2	II	27.89
3	III	23.31

b. The training cost will be paid in tranches:

Pay-out Tranches	Percentage (%)	Eligibility
Tranche -1	30%	**Enrolment**: Enrolment and achievement of T-1 AEBAS compliance ***T-1 Compliance:** (70% attendance of entire batch size within first 20 days of commencement of training) *(Example: If the batch size is of 30 candidates, the attendance for 21 candidates should be marked on AEBAS within the first 20 days of training commencement to become eligible for the first tranche amount)*
Tranche -2	30%	**Mid Training**: For Candidates who meet 70% attendance on AEBAS. PIAs may raise the T-2 invoices against batches where training of 50% of the total QP hours has been completed, against the candidates who have achieved 70% of attendance. *(Example for a Course duration of 300 Hrs, T-2 invoice can be raised on completion of 150 Hrs. of training. PIA will only be able to raise T-2 against candidates who will achieve 105 Hrs (70% of 150 Hrs).*
Tranche -3 **(Final settlement)**	40%	**Certification of Candidates**: Entire Settlement of funds against the certified candidates will be triggered post completion of assessment and certification of candidates on SIP. *Any additional funds transferred in the previous tranches shall be recovered in the 3rd tranche.*

For further information and support please refer to the attached document. You can also write to @Vijay Prakash and call him at 8595303095 (Please call during office hours only, Mon to Fri between 9:30 AM to 6:00 PM).

Brief on Implementing PMKVY at Educational Institutions.docx

Future Skill Job Roles.xlsx

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Government of India
Ministry of Skill Development and Entrepreneurship

Implementing PMKVY through Skill Hubs in Educational Institutions

Q. What is PMKVY?

A. Pradhan Mantri Kaushal Vikas Yojana (PMKVY) is the flagship scheme of the Ministry of Skill Development and Entrepreneurship (MSDE). It was first launched in the year 2015 and has evolved to suit the needs of the citizens of India as well as the industry. Between 2015 – 2022, three versions of the scheme have been implemented with varied approach and strategy. Currently, the Ministry is implementing the fourth version i.e., PMKVY 4.0.

Q. What types of training are imparted under PMKVY?

A. The scheme offers **two types** of trainings viz. **Short-Term Training** (STT) including Special Projects and **Recognition of Prior Learning** (RPL).

Short-Term Training (STT): NSQF-aligned courses ranging between 300 – 600 hours will be provided under STT. Courses of higher duration based on industry/ sectoral demand can also be offered. Training to be delivered through accredited and affiliated training centres. On-Job-Training (OJT) will be an inherent component under STT as mandated by NCVET, and the duration of OJT will depend on the job role.

Special Projects: Special Projects are project-based short-term skilling interventions that primarily meet the skilling needs of marginalized and vulnerable groups, difficult geographies and specialized training courses which are likely to be offered outside of regular short-term skilling programmes. These projects can avail of certain exemptions granted with the approval of the Executive Committee, and they can also be residential or non-residential.

Recognition of Prior Learning (RPL): Candidates with prior-learning experience or skills will be certified with due assessment. This shall enable youths to obtain industry relevant skill certification. Emphasis will be on up-skilling and interested candidates will have to undergo coursework for certification at a higher level based on assessment. The duration of RPL training ranges between 30 – 132 hours.

Q. Where is PMKVY implemented?

A. PMKVY is implemented through a nation-wide network of institutions consisting of MSDE Institutions, Skill Hubs, other Government Institutions, and Industry/ Private Institutions.

MSDE related Institutions

   i. Pradhan Mantri Kaushal Kendras (PMKKs)/ Skill India Centres
   ii. Jan Shikshan Sansthans (JSS)

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iii.   Industrial Training Institutes (ITI)

iv.   National Skill Training Institutes (NSTIs)

v.   National Institute for Entrepreneurship & Small Business Development (NIESBUD)

vi.   Indian Institute of Entrepreneurship (IIE), etc.

Skill Hubs: Training Centres in government and private educational institutions like-

i.   Schools

ii.   Colleges

iii.   Universities (including Skill Universities)

iv.   other Higher Education Institutions, etc.

Other Government Institutions: Any State/Central Government Institution including PSUs already engaged in skilling/training activities and with requisite infrastructure, as indicated below-

i.   Skill Development Institutes (SDI)

ii.   National Small Industries Corporation (NSIC)

iii.   Central Tool Room and Training Centre (CTTC)

iv.   Rural Self Employment Training Institutes (RSETI)

v.   National Institute of Electronics & Information Technology (NIELIT)

vi.   Central Institute of Petrochemicals Engineering & Technology (CIPET), etc.

Industry/ Private Institutions:

i.   Industry premise-based Training Centres
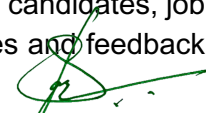
ii.   Non-Government Training Institutes, etc.

Q. What are Skill Hubs?

A. Adopting a whole-of-government approach and with the aim to utilize the **permanent infrastructure** and other resources like **trainer available** in the educational institutions, MSDE is encouraging educational institutions to set up training centres called as Skill Hubs. Skill Hubs can be setup in Government and Private Schools, Colleges, Universities (including Skill Universities) and other Higher Education Institutions and will be allowed to implement short term training under the PMKVY 4.0 scheme.

Q. What support will MSDE provide?

A. MSDE (through relevant stakeholders) will provide adequate handholding and support throughout the implementation of the scheme.

i.   MSDE will provide access to Skill India Digital platform. The platform will facilitate registration & onboarding of the institution, online counselling of the candidates, job and apprenticeship opportunities, QR code based digital certificates and feedback among other services.

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ii.   The entire training lifecycle from enrolment to certification and tracking will be done through Skill India Digital.

iii.   The Standard Operating Procedures (SOP) will be prepared and circulated by MSDE.

iv.   MSDE will also provide video tutorials for important steps in the training lifecycle at the educational institutions.

v.   Financial support as mentioned below:

S.No	Type of Training	Per Candidate Cost (In Rs.)
i.	STT courses of 300-hour duration	Rs. 9,540 per candidate
ii.	STT courses of 450-hour duration	Rs.13,724 per candidate
iii.	STT in Skill Hubs	Rs. 9,540 per candidate

Example:

An institution running **4 batches** of **30 students each of Short-Term Training,** with each course **300 hours** in duration, will be reimbursed **Rs. 11,44,800/-** (= 9540 * 4 * 30)**.** The institution will be expected to manage all its operations (including centre setup, outreach, training, trainers etc.) on its own while the ministry will reimburse the amount as per the table given above.

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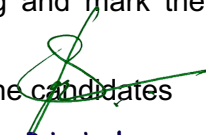
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Q. What will be the fund flow mechanism?

A. The pay-out to the educational institution will be done in three tranches as described in the table below.

Pay-out Tranches	Percentage (%)	Eligibility
Tranche -1	30%	**Enrolment**: Enrolment and achievement of T-1 AEBAS compliance ***T-1 Compliance:** (70% attendance of entire batch size within first 20 days of commencement of training)* *(Example: If the batch size is of 30 candidates, the attendance for 21 candidates should be marked on AEBAS within the first 20 days of training commencement to become eligible for the first tranche amount)*
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Tranche -3 (Final settlement)	40%	**Certification of Candidates**: Entire Settlement of funds against the certified candidates will be triggered post completion of assessment and certification of candidates on SIP. *Any additional fund transferred in the previous tranches shall be recovered in the 3rd tranche.*

Q. What is expected from Education Institutions?

A. The institute will be expected to:

    i.   Identify job roles based on the local demand

    ii.   Set up the training centre

    iii.   Mobilise the candidates for training

    iv.   Identify trainers and ensure timely training of trainers

    v.   Ensure high training quality in line with industry standards

    vi.   Provide On Job Training (OJT) opportunities

    vii.   Daily attendance of the candidates is to be marked on the Aadhaar Enabled Biometric Attendance System (AEBAS). Institutes must ensure procurement and installation of AEBAS devices before commencement of training and mark the attendance of the candidates on AEBAS daily

    viii.   Placement and apprenticeship opportunities may be facilitated to the candidates

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ix. Regular monitoring and reporting of the progress of trainees aligned to the SOPs and Guidelines shared by MSDE and provide feedback/ inputs for improvements

x. Make efforts to ensure that the training programs are accessible to a wide range of individuals, including those from marginalized communities and rural areas.

xi. Effectively manage and maintain data related to trainees, including their progress, certification, and placements.

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Circular

Lr. No. APGCU/PMKVY/2023-24/1   Date: 29/04/2024

Subject: Announcement of AI - Database Administrator Course under PMKVY Initiative

We are pleased to inform all students that our institution has been selected to offer the **AI - Database Administrator** course as part of the **Pradhan Mantri Kaushal Vikas Yojana (PMKVY)** initiative by the Central Government. This initiative aims to enhance employability by providing advanced skill-based training, **free of cost**.

Our college has been allotted **240 targets** for this prestigious course, which will begin in **January 2025**. The **Project Coordinator**, **Mr. N. Sundaram**, will oversee the program. Interested students are requested to register their names with Mr. Sundaram at the earliest, as seats are limited and will be allotted on a first-come, first-served basis.

This is a valuable opportunity to gain expertise in AI and database administration, preparing you for industry-relevant roles in a fast-growing sector. We encourage all eligible and interested students to take full advantage of this initiative.

For further details, you may contact the Project Coordinator directly.

Copy to:
1. IQAC
2. College Academic Committee
3. Project Coordinator

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Model Curriculum

AI – Database Administrator

(Elective – Traditional Databases / Clusters)

SECTOR:	**IT-ITeS**
SUB-SECTOR:	**FUTURE SKILLS**
OCCUPATION:	**ARTIFICIAL INTELLIGENCE & BIG DATA ANALYTICS**
REF ID:	**SSC/Q8109, V1.0**
NSQF LEVEL:	**7**

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Certificate

COMPLIANCE TO
QUALIFICATION PACK – NATIONAL OCCUPATIONAL STANDARDS

is hereby issued by the

IT-ITeS Sector Skills Council NASSCOM

for

MODEL CURRICULUM

Complying to the National Occupational Standards of

Job Role / Qualification Pack: '**AI – Database Administrator**'   QP No. '**SSC/Q8109 NSQF Level 7**'

Date of Issuance: October 17th 2018

Valid Upto *:   October 17th 2019

Authorised Signatory

* Valid up to the next review date of the Qualitifcation Pack

(IT-ITeS Sector Skills Council NASSCOM)

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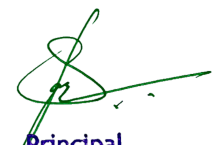AI - Database Administrator

AI – Database Administrator

CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a "AI – Database Administrator", in the "IT-ITeS" Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	AI – Database Administrator	
Qualification Pack Name and Reference ID.	SSC/Q8109, V1.0	
Version No.	1.0	**Version Update Date** 17/10/2018
Pre-requisites to Training	Bachelor's Degree in Engineering / Technology / Statistics / Mathematics / Computer Science	
Training Outcomes	**After completing this programme, participants will be able to:** **Compulsory:** • Explain the nature of work across the IT-ITeS sector, the various sub sectors and their evolution. • Elaborate the various occupations under the Future Skills sub sector and the impact of these on organizations and businesses. • Discuss the growing importance of AI and Big Data Analytics and its impact on the society. • Assess global standards and regulations for aspects of data administration and governance. • Define applications and limitations of various types of databases. • Design new databases based on different parameters such as data segmentation, schema, querying requirements, storage, etc. • Perform database maintenance procedures such as updating or deleting information, migration and troubleshooting. • Use different tools, frameworks, platforms, libraries, packages for database development, maintenance and administration. • Plan their schedules and timelines based on the nature of work. • Demonstrate how to communicate and work effectively with colleagues. • Use different approaches to effectively manage and share data and information. • Design a structured plan for self-learning and development.	

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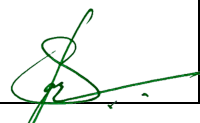|	
	• Develop strong relationships at the workplace through effective communication and conflict management. • Apply the principles of persuasive communication for negotiations and discussions. **Electives:** • Apply different approaches to manage access rules and capacity planning for traditional databases. • Apply different approaches to manage access rules and capacity planning for computing clusters.

This course encompasses 8 out of 8 Compulsory National Occupational Standards (NOS), 2 out of 2 Electives of "AI – Database Administrator" Qualification Pack issued by "IT-ITeS Sector Skills Council".

COMPULSORY NOS

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	**IT-ITeS Sector – An Introduction** **Theory Duration (hh:mm)** **06:00** **Practical Duration (hh:mm)** **03:00** **Corresponding NOS Code** **Bridge Module**	• Explain the relevance of the IT-ITeS sector • State the various sub-sectors in the IT-ITeS sector • Detail the nature of work performed across the sub-sectors • Identify and list organizations in the sector • Discuss the evolution of the sub sectors and the way forward • Explain the disruptions happening across the IT-ITeS sector	• Whiteboard and Markers • LCD Projector and Laptop for presentations • Lab equipped with the following: - • PCs/Laptops • Internet with WiFi (Min 2 Mbps Dedicated) • Chart paper and sketch pens
2	**Future Skills – An Introduction** **Theory Duration (hh:mm)** **01:00** **Practical Duration (hh:mm)** **01:00** **Corresponding NOS Code** **Bridge Module**	• Define the general overview of the Future Skills sub-sector • Describe the profile of the Future Skills sub-sector • Explain the various occupations under this sub-sector • List key trends across the occupations in this sub-sector • List various roles in the Future Skills sub-sector	• Whiteboard and Markers • LCD Projector and Laptop for presentations • Lab equipped with the following: • PCs/Laptops • Internet with WiFi (Min 2 Mbps Dedicated)

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3	**Artificial Intelligence & Big Data Analytics – An Introduction**
	
	Theory Duration (hh:mm)
	04:00
	
	Practical Duration (hh:mm)
	02:00
	
	Corresponding NOS Code
	Bridge Module
		• Explain the relevance of AI & Big Data Analytics in the society
		• Explain a general overview of AI & Big Data Analytics and its roles
		• Define career map for roles in AI & Big Data Analytics
		• Explain the role of a Database Administrator and his/her key responsibilities
		• List the range of skills and behavior, expected from a Database Administrator
		• State the growth opportunities for a Database Administrator
			• Whiteboard and Markers
			• LCD Projector and Laptop for presentations
			• Lab equipped with the following:
			  ○ PCs/Laptops
			  ○ Internet with Wi-Fi (Min 2 Mbps Dedicated)

4	**Global Regulations and Standards**
	
	Theory Duration (hh:mm)
	13:00
	
	Practical Duration (hh:mm)
	17:00
	
	Corresponding NOS Code
	Bridge Module
		• Assess global standards for data storage, security, privacy and monitoring
		• Assess the variances in standards for data storage, security, privacy and monitoring across different industries
		• Evaluate the implications of standards and regulations on data administration and governance
		• Comply with standards and regulations in their field of work
		• Develop forecasts and checks to accommodate any changes in standards or regulations
			• Whiteboard and Markers
			• LCD Projector and Laptop for presentations
			• Lab equipped with the following:
			  ○ PCs/Laptops
			  ○ Internet with Wi-Fi (Min 2 Mbps Dedicated)

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5	**Administration Tools and Usage**
	
	Theory Duration (hh:mm)
	08:00
	
	Practical Duration (hh:mm)
	12:00
	
	Corresponding NOS Code
	Bridge Module
		• Distinguish between the pros and cons of different data administration tools, frameworks and microservices
		• Comprehend the basics of different infrastructure components such as storage devices, networking hardware, server-storage connectivity, virtualization technologies
		• Analyze the applications and limitations of different computing platforms
		• Analyze the applications and limitations of different microservices, frameworks, libraries, packages
		• Analyze the applications and limitations of various server authentication, network security and virus protection tools
		• Analyze the applications and limitations of various tools for configuration management, continuous integration, development and test automation
		• Apply the functionalities of different data administration tools, frameworks and microservices to ensure data access and security
			• Whiteboard and Markers
			• LCD Projector and Laptop for presentations
			• Lab equipped with the following:
			  • PCs/Laptops
			  • Internet with Wi-Fi (Min 2 Mbps Dedicated)
			  • Latest versions of various data administration tools, frameworks and microservices
			  • Latest versions of server authentication, network security and virus protection tools
			  • Latest versions of configuration management, continuous integration, development and test automation tools

6	**Data Sources and Databases**
	
	Theory Duration (hh:mm)
	25:00
	
	Practical Duration (hh:mm)
	50:00
		• Identify various commonly known open source and paid data sources
		• Discuss the uses and characteristics of different open source and paid data sources
		• Summarize the pros and cons of using public vs private data sources to import data
			• Whiteboard and Markers
			• LCD Projector and Laptop for presentations
			• Lab equipped with the following:
			  • PCs/Laptops
			  • Internet with Wi-Fi (Min 2 Mbps Dedicated)

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	Corresponding NOS Code SSC/N8115	• Distinguish between the pros and cons of different SQL and noSQL databases • Select suitable SQL and noSQL databases based on the objective • Assess different file systems to store structured, unstructured or semi-structured data across file types	

7	**Database Development**
	
	Theory Duration (hh:mm) 25:00
	
	Practical Duration (hh:mm) 50:00
	
	Corresponding NOS Code SSC/N8115
		• Assess different databases based on the defined data segmentation, schema, querying requirements, storage, availability and speed requirements
		• Select the right database to meet the requirements of the analysis
		• Categorize the various potential limitations while selecting open source databases
		• Demonstrate how to install new databases
		• Use different functions to import data into databases or data stores
			• Whiteboard and markers
			• LCD projector and laptop for presentations
			• Lab equipped with the following:
			  • PCs/Laptops
			  • Internet with Wi-Fi (Min 2 Mbps Dedicated)

8	**Database Maintenance**
	
	Theory Duration (hh:mm) 25:00
	
	Practical Duration (hh:mm) 50:00
	
	Corresponding NOS Code SSC/N8116
		• Use different functions to query SQL databases
		• Use the CRUD function to add, delete, modify or update data in databases
		• Assess the different problems that may arise with either SQL or noSQL databases
		• Develop procedures to identify and counter issues with in-memory databases
		• Apply different maintenance procedures for databases
		• Apply different approaches to migrate databases
			• Whiteboard and markers
			• LCD projector and laptop for presentations
			• Lab equipped with the following:
			  • PCs/Laptops
			  • Internet with Wi-Fi (Min 2 Mbps Dedicated)

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9	**Manage Your Work to Meet Requirements** **Theory Duration (hh:mm)** **12:00** **Practical Duration (hh:mm)** **38:00** **Corresponding NOS Code** **SSC/N9001**	• Define scope of work and working within limits of authority • Summarize the details of the work and work environment • Recognize the importance of maintaining confidentiality	• Whiteboard and Markers • LCD Projector and Laptop for presentations
10	**Work Effectively with Colleagues** **Theory Duration (hh:mm)** **12:00** **Practical Duration (hh:mm)** **38:00** **Corresponding NOS Code** **SSC/N9002**	• Use different methods and mechanisms for effective communication • Recognize the importance of working effectively	• Whiteboard and Markers • LCD Projector and Laptop for presentations • Provision to write emails and send in the lab • Lab with provision for internet, email, word processor and presentation software • Chart paper, markers, picture magazines and old newspapers
11	**Provide Data / Information in Standard Formats** **Theory Duration (hh:mm)** **12:00** **Practical Duration (hh:mm)** **38:00** **Corresponding NOS Code** **SSC/N9004**	• Apply the concepts behind information and knowledge management • Describe how data / information can be managed effectively • Apply skills required to manage data and information effectively	• Whiteboard and Markers • LCD Projector and Laptop for presentations • Provision for online research in the lab

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12	**Develop Knowledge, Skills and Competence** **Theory Duration (hh:mm)** **06:00** **Practical Duration (hh:mm)** **19:00** **Corresponding NOS Code** **SSC/N9005**	• Recognize the importance of self-development • Identify knowledge and skills required for the job • Identify avenues for self-development • Create plans for self-development	• Whiteboard and Markers • LCD Projector and Laptop for presentations • Provision for online access to all students in the lab
13	**Build and Maintain Relationships at the Workplace** **Theory Duration (hh:mm)** **10:00** **Practical Duration (hh:mm)** **15:00** **Corresponding NOS Code** **SSC/N9006**	• Recognize the importance of open and effective communication • Apply different approaches for conflict management • Apply different approaches to boost recognition and motivation	• Whiteboard and Markers • LCD Projector and Laptop for presentations • Lab with provision for internet, email, word processor and presentation software • Chart paper, markers, picture magazines and old newspapers
14	**Persuasive Communication** **Theory Duration (hh:mm)** **10:00** **Practical Duration (hh:mm)** **15:00** **Corresponding NOS Code** **SSC/N9010**	• Identify different requirements and how to adapt to each distinct requirement • Demonstrate how to use evidences to support arguments	• Whiteboard and Markers • LCD Projector and Laptop for presentations • Lab with provision for internet, email, word processor and presentation software • Chart paper, markers, picture magazines and old newspapers

	Total Duration:
	
	Theory Duration
	169:00
	
	Practical Duration
	348:00
		Unique Equipment Required
		• Whiteboard and Markers
		• LCD Projector and Laptop for presentations
		• Lab equipped with the following: -
		    • PCs/Laptops
		    • Internet with Wi-Fi (Min 2 Mbps Dedicated)
		    • Chart paper and sketch pens	

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		- Latest versions of various data administration tools, frameworks and microservices - Latest versions of server authentication, network security and virus protection tools - Latest versions of configuration management, continuous integration, development and test automation tools - Chart paper, markers, picture magazines and old newspapers **Popular Software Tools** Database management system: Cassandra, MongoDB, Amazon DynamoDB, Apache Hive, MySQL Database reporting tools: Microsoft SQL Server Reporting Services, Oracle SQL Plus, SAP Crystal Reports Database management PaaS: AWS, Hortonworks, Cloudera, Azure

ELECTIVES (Mandatory to select at least one title)

ELECTIVE 1: Traditional Databases

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	**Database Administration – Access and Capacity Planning** **Theory Duration (hh:mm)** 25:00 **Practical Duration (hh:mm)** 50:00 **Corresponding NOS Code** **SSC/N8117**	• Assess different stakeholder requirements for database access, availability and usage • Assess the need for encrypting the database • Create encryption standards for the database • Summarize the issues that may arise in case of a distributed denial of service (DDoS) attack • Apply different approaches to perform load / stress testing to ensure database functionality in case of a DDoS attack • Select the right tools and mechanisms to monitor and database capacity • Select suitable metrics to measure database utilization, availability and performance • Develop plans to ensure adequate capacity for different stakeholders using the database • Assess various database vulnerabilities • Develop checks and measures to remediate database vulnerabilities • Develop a disaster recovery strategy for the database environment • Apply different approaches to recover lost or corrupted data from databases	• Whiteboard and markers • LCD projector and laptop for presentations • Lab equipped with the following: • PCs/Laptops • Internet with Wi-Fi (Min 2 Mbps Dedicated)

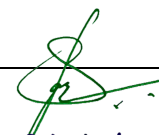| ELECTIVE 1
Total Duration:
 	
Theory Duration
25:00
 	
Practical Duration
50:00
	Unique Equipment Required
	
	• Whiteboard and markers
	• LCD projector and laptop for presentations
	• Lab equipped with the following:
	    • PCs/Laptops
	    • Internet with Wi-Fi (Min 2 Mbps Dedicated)
	
	Popular Software Tools
	<u>Database management system:</u> Cassandra, MongoDB, Amazon DynamoDB, Apache Hive, MySQL
	<u>Database reporting tools:</u> Microsoft SQL Server Reporting Services, Oracle SQL Plus, SAP Crystal Reports
	<u>Database management PaaS:</u> AWS, Hortonworks, Cloudera, Azure

ELECTIVE 2: Clusters

Sr. No.	Module	Key Learning Outcomes	Equipment Required

1	**Cluster Administration - Access and Capacity Planning**
	
	Theory Duration (hh:mm)
	25:00
	
	Practical Duration (hh:mm)
	50:00
	
	Corresponding NOS Code
	SSC/N8118
		• Assess different stakeholder requirements for cluster availability and usage
		• Select cluster size based on stakeholder requirements
		• Assess the services by different providers of computing clusters
		• Select suitable cluster monitoring tools
		• Apply different approaches to add or remove nodes from clusters
		• Apply different approaches to deploy clusters
		• Comprehend the difference between the encryption requirements for data at rest and in motion
		• Assess the need for encrypting the cluster
		• Create encryption standards for the cluster
		• Develop access rules for the cluster
		• Assess different capacity planning considerations for
			• Whiteboard and markers
			• LCD projector and laptop for presentations
			• Lab equipped with the following:
			    • PCs/Laptops
			    • Internet with Wi-Fi (Min 2 Mbps Dedicated)

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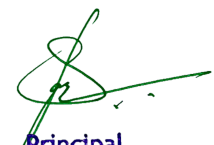
	clusters such as data redundancy, overhead and compression, input / output operations per second (IoPS) • Develop plans to ensure adequate capacity for different stakeholders using the cluster • Recommend different measures to improve cluster efficiency • Assess various cluster vulnerabilities • Develop checks and measures to remediate cluster vulnerabilities	

ELECTIVE 2
Total Duration:
 	
Theory Duration 25:00
 	
Practical Duration 50:00
	Unique Equipment Required
	• Whiteboard and markers
	• LCD projector and laptop for presentations
	• Lab equipped with the following:
	   • PCs/Laptops
	   • Internet with Wi-Fi (Min 2 Mbps Dedicated)
	
	Popular Software Tools
	<u>Cluster management software:</u> Kubernetes, Apache Mesos, Docker Swarm	

	GRAND Total Duration
	
	Minimum Duration for the QP = 592 hrs
	
	Theory: 194 hrs
	Practical: 398 hrs
	
	Maximum Duration for the QP= 667 hrs
	
	Theory: 219 hrs
	Practical: 448 hrs
		Unique Equipment Required for the QP:
		• Whiteboard and Markers
		• LCD Projector and Laptop for presentations
		• Lab equipped with the following: -
		   • PCs/Laptops
		   • Internet with Wi-Fi (Min 2 Mbps Dedicated)
		   • Chart paper and sketch pens
		   • Latest versions of various data administration tools, frameworks and microservices
		   • Latest versions of server authentication, network security and virus protection tools
		   • Latest versions of configuration management, continuous integration, development and test automation tools
		• Chart paper, markers, picture magazines and old newspapers

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		Popular Software Tools
		Database management system: Cassandra, MongoDB, Amazon DynamoDB, Apache Hive, MySQL
		Database reporting tools: Microsoft SQL Server Reporting Services, Oracle SQL Plus, SAP Crystal Reports
		Database management PaaS: AWS, Hortonworks, Cloudera, Azure
		Cluster management software: Kubernetes, Apache Mesos, Docker Swarm
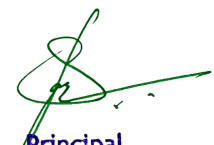
*(This syllabus/ curriculum has been approved by **SSC: IT- ITeS Sector Skills Council NASSCOM**)*

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Trainer Prerequisites for Job role: "AI – Database Administrator" mapped to Qualification Pack: "SSC/Q8109, V1.0"

Sr. No.	Area	Details
1	Description	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack SSC/Q8109, V1.0
2	Personal Attributes	This job may require the individual to work independently and take decisions for his/her own area of work. The individual should have a high level of analytical thinking ability, passion for Artificial Intelligence and Big Data Analytics, and attention for detail, should be ethical, compliance and result oriented, should also be able to demonstrate interpersonal skills, along with willingness to undertake desk-based job with long working hours.
3	Minimum Educational Qualifications	Graduate in any discipline preferably Science/Computer Science/Electronics and Engineering /Information Technology
4a	Domain Certification	Certified for Job Role: "AI – Database Administrator" mapped to QP: "SSC/Q8109, V1.0". Minimum accepted score is 80%
4b	Platform Certification	Recommended that the trainer is certified for the Job role "Trainer" mapped to the Qualification Pack "MEP/Q0102". Minimum accepted score is 80% aggregate
5	Experience	5+ years of work experience/internship in Database Administrator or related roles that involve database querying or management

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Criteria For Assessment Of Trainees

Job Role AI – Database Administrator

Qualification Pack SSC/Q8109, V1.0

Sector Skill Council IT-ITeS

Guidelines for Assessment

1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.

2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.

3. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS.

4. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below).

5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criterion.

6. To pass a QP, a trainee should score an average of 70% across generic NOS' and a minimum of 70% for each technical NOS

7. In case of *unsuccessful completion*, the trainee may seek reassessment on the Qualification Pack.

Compulsory NOS Total Marks: 800			Marks Allocation		
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
1. SSC/N8115 Create new databases	PC1. identify the objectives to be addressed	100	10	3	7
	PC2. identify suitable data sources		20	7	13
	PC3. specify the storage requirements such as space and create a new database		30	10	20
	PC4. import data from the identified sources (logs, files, different databases) into the database		30	10	20
	PC5. create documentation on new databases for appropriate people		5	0	5
	PC6. validate databases with appropriate people		5	0	5
	Total		**100**	**30**	**70**
2. SSC/N8116 Maintain existing databases	PC1. update and delete information from existing databases	100	20	5	15
	PC2. assist in the migration of existing databases to new environments		20	5	15
	PC3. update documentation on existing databases for appropriate people		5	0	5
	PC4. implement automated database maintenance plans and backup routines		20	5	15
	PC5. perform manual and scheduled maintenance		20	5	15

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Compulsory NOS Total Marks: 800			Marks Allocation		
Assessment outcomes	**Assessment Criteria for outcomes**	**Total Marks**	**Out Of**	**Theory**	**Skills Practical**
	procedures for backup, optimization and indexing				
	PC6. troubleshoot and resolve issues with database completeness and veracity		15	5	10
	Total		**100**	**25**	**75**
3. SSC/N9001 **Manage your work to meet requirements**	PC1. establish and agree your work requirements with appropriate people		6.25	0	6.25
	PC2. keep your immediate work area clean and tidy		12.5	6.25	6.25
	PC3. utilize your time effectively		12.5	6.25	6.25
	PC4. use resources correctly and efficiently		18.75	6.25	12.5
	PC5. treat confidential information correctly	100	6.25	0	6.25
	PC6. work in line with your organization's policies and procedures		12.5	0	12.5
	PC7. work within the limits of your job role		6.25	0	6.25
	PC8. obtain guidance from appropriate people, where necessary		6.25	0	6.25
	PC9. ensure your work meets the agreed requirements		18.75	6.25	12.5
	Total		**100**	**25**	**75**
4. SSC/N9002 **Work effectively with colleagues**	PC1. communicate with colleagues clearly, concisely and accurately	100	20	0	20
	PC2. work with colleagues to integrate		10	0	10

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Compulsory NOS	Marks Allocation		
Total Marks: 800			
Assessment outcomes	**Assessment Criteria for outcomes**	**Total Marks**	**Out Of**	**Theory**	**Skills Practical**
	your work effectively with them				
	PC3. pass on essential information to colleagues in line with organizational requirements		10	10	0
	PC4. work in ways that show respect for colleagues		20	0	20
	PC5. carry out commitments you have made to colleagues		10	0	10
	PC6. let colleagues know in good time if you cannot carry out your commitments, explaining the reasons		10	10	0
	PC7. identify any problems you have working with colleagues and take the initiative to solve these problems		10	0	10
	PC8. follow the organization's policies and procedures for working with colleagues		10	0	10
	Total		**100**	**20**	**80**
5. SSC/N9004 **Provide data/information in standard formats**	PC1. establish and agree with appropriate people the data/information you need to provide, the formats in which you need to provide it, and when you need to provide it	100	12.5	12.5	0
	PC2. obtain the data/information from reliable sources		12.5	0	12.5
	PC3. check that the data/information is		12.5	6.25	6.25

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Compulsory NOS Total Marks: 800			Marks Allocation		
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
	accurate, complete and up-to-date				
	PC4. obtain advice or guidance from appropriate people where there are problems with the data/information		6.25	0	6.25
	PC5. carry out rule-based analysis of the data/information, if required		25	0	25
	PC6. insert the data/information into the agreed formats		12.5	0	12.5
	PC7. check the accuracy of your work, involving colleagues where required		6.25	0	6.25
	PC8. report any unresolved anomalies in the data/information to appropriate people		6.25	6.25	0
	PC9. provide complete, accurate and up-to-date data/information to the appropriate people in the required formats on time		6.25	0	6.25
	Total		**100**	**25**	**75**
6. SSC/N9005 Develop your knowledge, skills and competence	PC1. obtain advice and guidance from appropriate people to develop your knowledge, skills and competence	100	10	0	10
	PC2. identify accurately the knowledge and skills you need for your job role		10	0	10
	PC3. identify accurately your current level of knowledge, skills and		20	10	10

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Compulsory NOS Total Marks: 800			Marks Allocation		
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
	competence and any learning and development needs				
	PC4. agree with appropriate people a plan of learning and development activities to address your learning needs		10	0	10
	PC5. undertake learning and development activities in line with your plan		20	10	10
	PC6. apply your new knowledge and skills in the workplace, under supervision		10	0	10
	PC7. obtain feedback from appropriate people on your knowledge and skills and how effectively you apply them		10	0	10
	PC8. review your knowledge, skills and competence regularly and take appropriate action		10	0	10
	Total		**100**	**20**	**80**
7. SSC/N9006 Build and maintain relationships at the workplace	PC1. build rapport with appropriate people at the workplace	100	10	3	7
	PC2. develop new professional relationships		10	3	7
	PC3. build alliances to establish mutually beneficial working arrangements		10	3	7

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| Compulsory NOS | | | Marks Allocation | | |
| Total Marks: 800 | | | | | |
Assessment outcomes	Assessment Criteria for outcomes	Total Marks	Out Of	Theory	Skills Practical
	PC4. foster an environment where others feel respected		10	4	6
	PC5. identify and engage a diverse range of influential contacts		10	4	6
	PC6. obtain guidance from appropriate people, wherever necessary		10	3	7
	PC7. attentively listen to ideas and give constructive feedback		10	3	7
	PC8. promptly resolve conflicts between self or others		10	2	8
	PC9. work with colleagues to deliver shared goals		10	2	8
	PC10. recognize the contributions made by your colleagues		10	3	7
	Total		**100**	**30**	**70**
8. SSC/N9010 Convince others to take appropriate action in different situations	PC1. gather needs of concerned people	100	10	0	10
	PC2. adapt arguments to consider diverse needs		15	0	15
	PC3. use small wins as milestones to gain support for ideas		25	10	15
	PC4. persuade with the help of concrete examples or evidences		25	10	15
	PC5. take structured actions to reach consensus on the course of action		25	10	15

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Compulsory NOS Total Marks: 800			Marks Allocation		
Assessment outcomes	**Assessment Criteria for outcomes**	**Total Marks**	**Out Of**	**Theory**	**Skills Practical**
	Total		100	30	70

ELECTIVES					
Elective 1 – Traditional Databases Total Marks: 100			Marks Allocation		
Assessment outcomes	**Assessment Criteria for outcomes**	**Total Marks**	**Out Of**	**Theory**	**Skills Practical**
1. SSC/N8117 Manage database access and configuration	PC1. define and test user access rules for databases	100	15	5	10
	PC2. define encryption standards for the database		10	3	7
	PC3. perform load / stress testing to ensure the database does not crash in a DDoS (Distributed Denial of Service) attack		10	3	7
	PC4. ensure access to specific data and form of the data and provide deployment support to appropriate people using the databases		15	5	10
	PC5. monitor ongoing and forecasted workloads and determine consumption of data storage and compute resources		10	3	7
	PC6. monitor logs, server usage, and performance metrics to ensure functionality and accessibility		10	3	7

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			Out Of	Theory	Skills Practical
	PC7. develop reports on database utilization, availability and performance metrics for relevant stakeholders		10	3	7
	PC8. troubleshoot database utilization, availability and performance issues and remediate known impacting vulnerabilities		10	2	8
	PC9. oversee the availability and disaster recovery strategy for the database environment		10	3	7
	Total		**100**	**30**	**70**

Elective 2 – Clusters Total Marks: 100			Marks Allocation		
Assessment outcomes	**Assessment Criteria for outcomes**	**Total Marks**	**Out Of**	**Theory**	**Skills Practical**
1. SSC/N8118 Manage computing cluster administration	PC1. define the size of the cluster based on data to be stored	100	10	3	7
	PC2. identify quicker ways to add or remove nodes using cluster monitoring tools		10	3	7
	PC3. deploy and manage clusters		10	3	7
	PC4. setup cluster configurations using cookbooks, etc.		10	3	7
	PC5. define encryption standards at rest and in motion for data stored on the cluster		10	3	7
	PC6. create documentation on computing clusters		5	0	5

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	PC7. validate computing clusters with appropriate people		5	0	5
	PC8. administer cluster access for appropriate people		10	3	7
	PC9. evaluate cluster requirement estimates through capacity planning		10	3	7
	PC10. monitor cluster connectivity and performance and recommend efficiencies		10	3	7
	PC11. troubleshoot issues with cluster connectivity and performance with appropriate people		10	3	7
	Total		**100**	**27**	**73**

List of Students under PMKVY

S.No	Name	PMKVY Course
1	THIPPIREDDY SAKETH REDDY	AI Database Administrator
2	KUKKALA AMULYA	AI Database Administrator
3	N ASHOK	AI Database Administrator
4	UMMADI UDAY KIRAN	AI Database Administrator
5	BOINI MOUNIKA	AI Database Administrator
6	EMBARI SHIVANI	AI Database Administrator
7	GANGADHARI CHETHAN	AI Database Administrator
8	KANAPARTHI VAISHNAVI	AI Database Administrator
9	KOMPELLI MAHESH	AI Database Administrator
10	NUKALA SARITHA	AI Database Administrator
11	YANAGANDLA ALEKYA	AI Database Administrator
12	BANTU VENKATESH	AI Database Administrator
13	PATHI VAISHNAVI	AI Database Administrator
14	BOLLA MANOGNA	AI Database Administrator
15	BOLLEM TEJASWINI	AI Database Administrator
16	ANUGANDHULA PRATHIKA	AI Database Administrator
17	GATLA MANASA	AI Database Administrator
18	SANKOJI PAVANCHARY	AI Database Administrator
19	NARA LEHYA	AI Database Administrator
20	KALIGINEEDI VENKAT SATYA SAI	AI Database Administrator
21	RAPOLU HARIKA	AI Database Administrator
22	THATIPALLY POOJITHA	AI Database Administrator
23	GUNDREDDY SHIVA REDDY	AI Database Administrator
24	PURAM AJAY	AI Database Administrator
25	DANAM RANJITH	AI Database Administrator
26	PEDDI REDDY RAGHUMA REDDY	AI Database Administrator
27	ELLENDHULLA SRIJA	AI Database Administrator
28	P VARSHA	AI Database Administrator
29	JOGU SAHITHI	AI Database Administrator
30	MUKKA POOJA	AI Database Administrator
31	VAJJALA NAVANEETHA	AI Database Administrator
32	SUDDHALA KAVYA	AI Database Administrator
33	MAROJU APARNA	AI Database Administrator
34	RIKKULA NIKHITHA	AI Database Administrator

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S.No	Name	PMKVY Course
35	KASARLA SATHISH	AI Database Administrator
36	BURKA SWAPNIKA	AI Database Administrator
37	EDIGIRALA UDAY	AI Database Administrator
38	MANGALI VISHNU	AI Database Administrator
39	KUMMARI BHUMIKA	AI Database Administrator
40	PAIDI NISHANK	AI Database Administrator
41	JATANGI GANESH	AI Database Administrator
42	JANAGAMA SAITEJA	AI Database Administrator
43	SERI SHREEJA	AI Database Administrator
44	GUDABOINA LAXMI	AI Database Administrator
45	MOTHUKULA NIVEDITHA	AI Database Administrator
46	MYAKA SWETHA	AI Database Administrator
47	SAGILI SURESH REDDY	AI Database Administrator
48	GUMMADI VENKATA REDDY	AI Database Administrator
49	BONDUGULA PRAJWALA	AI Database Administrator
50	PANDUGA DIVYA	AI Database Administrator
51	SONTE MINAKSHI	AI Database Administrator
52	DUVVA PRANEETH KUMAR	AI Database Administrator
53	BAIRI SOUMYA	AI Database Administrator
54	PULIGILLA RAVALIKA	AI Database Administrator
55	ALUGOJU SAI BRAHMAM	AI Database Administrator
56	ANTHATI MANASA	AI Database Administrator
57	VADLA PREM KUMAR	AI Database Administrator
58	ANNARAM SHIVA KRISHNA	AI Database Administrator
59	NARAMOLLA JAYA SAINATH REDDY	AI Database Administrator
60	K SHIRISHA	AI Database Administrator
61	PASUPULETI MYNA	AI Database Administrator
62	RADA NEELIMA	AI Database Administrator
63	PURIMISHETTI ANURESH	AI Database Administrator
64	BOMMEPALLY SRAVYA	AI Database Administrator
65	ALISHALA HEMALATHA	AI Database Administrator
66	BAGDE ROHITH	AI Database Administrator
67	SAMUDRALA MOUNIKA	AI Database Administrator
68	MAMILLA ARAVIND	AI Database Administrator
69	PALA AKSHITHA	AI Database Administrator
70	SHRUTHI KANDE	AI Database Administrator

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S.No	Name	PMKVY Course
72	KALIMERA SAI CHANDU	AI Database Administrator
73	JOGINI ARUN KUMAR	AI Database Administrator
74	VEGYARAPU CHANDANA	AI Database Administrator
75	NANAVENI GANESH	AI Database Administrator
76	GUNDLA MADHURI	AI Database Administrator
77	RALLAPALLI ASHISHNAIDU	AI Database Administrator
78	YERRAM THANUJA	AI Database Administrator
79	VINAY KUMAR SURIMILLA	AI Database Administrator
80	KATTA JHANSI	AI Database Administrator
81	CHOWDARY NARAYANA RAO	AI Database Administrator
82	CHINTHAKUNTA SHIVA KUMAR	AI Database Administrator
83	JANGALA SAI	AI Database Administrator
84	MATURI MALLESHWARI	AI Database Administrator
85	C ARAVIND KUMAR	AI Database Administrator
86	MEDIBOINA RAJU	AI Database Administrator
87	KOYYAL SANTHOSH YADAV	AI Database Administrator
88	THOTA RAKESH	AI Database Administrator
89	DONTHI PADMINI	AI Database Administrator
90	P SUDHARANI	AI Database Administrator
91	VEMULA SRUJANA	AI Database Administrator
92	KOTAGIRI PRASHANTH	AI Database Administrator
93	CHINTADA MOUNIKA	AI Database Administrator
94	BAGAM NEERAJA	AI Database Administrator
95	A SRAVANI	AI Database Administrator
96	BUDUMA TARUN	AI Database Administrator
97	MANAVARAPU JYOTHI	AI Database Administrator
98	SALANDRI SANKEERTHANA	AI Database Administrator
99	NAVYA BONTHA	AI Database Administrator
100	THOTA SAIKUMAR	AI Database Administrator
101	VAJRALA SHRAVANI	AI Database Administrator
102	PARRAY RAJU	AI Database Administrator
103	DUGGEMPUDI MADHURI DEEPTHI	AI Database Administrator
104	A RAJKAMAL	AI Database Administrator
105	JILLELLA RAMYA	AI Database Administrator
106	PARIMI RESHMA	AI Database Administrator
107	SHAIK BAJI	AI Database Administrator

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S.No	Name	PMKVY Course
108	ADAMALA SOWMYA	AI Database Administrator
109	GAVARA SRIKANTH	AI Database Administrator
110	SARITA SAHOO	AI Database Administrator
111	RACHARLA SHIVA	AI Database Administrator
112	NETINTI MADHU	AI Database Administrator
113	GADE GOUTHAM CHAKRAVARTHI	AI Database Administrator
114	ATHINARAPU KUMAR SAGAR	AI Database Administrator
115	L NIHARIKA REDDY	AI Database Administrator
116	GANTA NIHARIKA	AI Database Administrator
117	KELLA MADHU PRIYA	AI Database Administrator
118	MASIREDDY RAMYA	AI Database Administrator
119	CHINTAPARTHI MONISH	AI Database Administrator
120	CHATHARASI VILASH YADAV	AI Database Administrator
121	BELLAMKONDA SAI VARUN	AI Database Administrator
122	CHINTHAPALLY SATYA VENI	AI Database Administrator
123	GUNDA SREEDEVI	AI Database Administrator
124	BALGAM SATHVIKA	AI Database Administrator
125	MANCHIKATLA GREESHMA SANTHOSHINI	AI Database Administrator
126	GANJI NIHARIKA	AI Database Administrator
127	CHEPURI BHARATH	AI Database Administrator
128	MADUPU MADHUSUDHAN REDDY	AI Database Administrator
129	AKKENAPALLY MANVITHA	AI Database Administrator
130	KALA SAI KUMAR	AI Database Administrator
131	P SAI KUMAR	AI Database Administrator
132	BATTALA VAMSHI	AI Database Administrator
133	PONNALA MAHESHWARI	AI Database Administrator
134	GUJJARLAPUDI NAVEEN	AI Database Administrator
135	ARRAVALI NAVEEN CHARY	AI Database Administrator
136	P NAVEEN	AI Database Administrator
137	NISHATH SULTANA	AI Database Administrator
138	GOVINDU AISHWARYA	AI Database Administrator
139	NIMMANAGOTI SUDHAKAR	AI Database Administrator
140	CHENNOJU SHRUTHI	AI Database Administrator
141	MUNUGALA SHIRISHA	AI Database Administrator
142	DUDIPALA AKSHITHA	AI Database Administrator
143	GUNTURU NAGA SRIRUPA	AI Database Administrator

Principal
Aurora's PG College (MCA)
Uppal, Hyderabad-500092

S.No	Name	PMKVY Course
144	BOMMAKANTI SAI KUMAR	AI Database Administrator
145	GONE SUPRIYA	AI Database Administrator
146	POTHI REDDY ASHWINI	AI Database Administrator
147	KAMISHETTY SRINIVAS	AI Database Administrator
148	KETHA PAVANI LAKSHMI	AI Database Administrator
149	SUBBURU LATHA	AI Database Administrator
150	ALLE VENKATESH	AI Database Administrator
151	CHEEKULA TRIVENI REDDY	AI Database Administrator
152	ENDLA RAMYA	AI Database Administrator
153	GADALA SRIKANTH	AI Database Administrator
154	ABBADI PRASHANTH REDDY	AI Database Administrator
155	K BHAVYASRI	AI Database Administrator
156	SAMBAJI SRAVANI	AI Database Administrator
157	MODEM ANUSHA	AI Database Administrator
158	TAMMANNAGARI SRAVYA	AI Database Administrator
159	ADAPALA MOHITHA	AI Database Administrator
160	BITLA SUBHASH	AI Database Administrator
161	MOHAMMED ZEESHAN	AI Database Administrator
162	BADDAM SHRUTHI	AI Database Administrator
163	GUNJI KRISHNAVENI	AI Database Administrator
164	KOTHAKONDA DHEERAJ KUMAR	AI Database Administrator
165	LANGOTI CHANDRAVATHI	AI Database Administrator
166	NAGABANDI AISHWARYA	AI Database Administrator
167	DONTHU SUNIL KUMAR	AI Database Administrator
168	PENTY DEEPIKA	AI Database Administrator
169	V.MAMTHA	AI Database Administrator
170	ADDU ROHINI	AI Database Administrator
171	CHINNAKISTAIAHGARI RAMYA	AI Database Administrator
172	CHELLIBOUNA YASHODHA	AI Database Administrator
173	RAMIDI PRAVEEN	AI Database Administrator
174	DEVUDI PRAVALIKA	AI Database Administrator
175	DEEKONDA BHANU SRI	AI Database Administrator
176	GUJJURU VIJAYASRI	AI Database Administrator
177	ANGADALA LAXMAN	AI Database Administrator
178	BHARATHA KUSUMASREE	AI Database Administrator
179	GUDA SHRUTHI	AI Database Administrator

Principal
Aurora's PG College (MCA)
Uppal, Hyderabad-500092

S.No	Name	PMKVY Course
180	ARROJU TEJASWINI	AI Database Administrator
181	RACHAKONDA SHILESH	AI Database Administrator
182	RATHNAPURAM DURGABHAVANI	AI Database Administrator
183	GODUGU SOUMYA	AI Database Administrator
184	GARAPATI RAMYA	AI Database Administrator
185	KOLAGANI SANDHYARANI	AI Database Administrator
186	KATTEBOINA NAGARAJU	AI Database Administrator
187	GUNDELLY ANUSHA	AI Database Administrator
188	BUSA SWETHA	AI Database Administrator
189	DARLA CHANDRA PAUL	AI Database Administrator
190	GOPU KEERTHI KUMAR	AI Database Administrator
191	BEJJU YADALAKSHMI	AI Database Administrator
192	LAKKIREDDY MANISHA	AI Database Administrator
193	ENNELA PAVAN	AI Database Administrator
194	KOTA UDAY CHANDU	AI Database Administrator
195	AKULA SHIVANI	AI Database Administrator
196	KAKINADA HARISH	AI Database Administrator
197	R VAISHNAVI	AI Database Administrator

Principal

Principal
Aurora's PG College (MCA)
Uppal, Hyderabad-500092

DVV Clarification for 3.1.1

Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

DOCUMENTARY EVIDENCES

2. Analysis of Customer Preferences for Gluten-Free Food Products

2023-24

AURORA'S PG COLLEGE (MCA)

Peerzadiguda, Hyderabad-500092

www.apgcu.ac.in

06-07-2023

Lr No: AURA/R&D/2023/09

Dr P.S.Subha Pradha
Associate Professor,
Department of Business Management
Aurora's PG College (MCA)
Peerzadiguda, Uppal
Hyderabad, Telangana

To
The Managing Director
9Nutz Millets Private Limited
Hyderabad, Telangana.

// THROUGH PROPER CHANNEL//

Subject: Request for Consultancy Project on "Analysis of Customer Preferences for Gluten-Free Food Products"

Dear V Keerthana,

I hope this letter finds you well. This is Dr. P.S.Subha Pradha, Principal Investigator for the consultancy project *Analysis of Customer Preferences for Gluten-Free Food Products* conducted during October 2022 to February 2023 in Medchal- Malkajgiri district. The study gave satisfactory results and you were also appreciating that the inputs provided were high contributing to your business development. In this backdrop, I would like to propose for extension of this study to Rangareddy and Hyderabad districts of Telangana state, which would be highly beneficial for your business expansion.

Given your company's involvement in the production and marketing of innovative millet based food products, I believe that a detailed study on customer preferences in this segment would provide valuable insights that can assist in refining product offerings, improving market positioning, and enhancing customer engagement.

The objective of the proposed study will be to analyze consumer behavior, preferences, and purchasing patterns related to millet-based food products. The research will involve surveys, focus group discussions, and data analytics, with the aim of identifying key drivers behind customer choices, potential barriers to adoption, and opportunities for growth within this niche market.

We would be grateful if you could provide us with the opportunity to collaborate on this project. I am available to discuss the specifics of the consultancy, including timelines, deliverables, and any other requirements you may have, at your convenience. Kindly let me know a suitable time for a meeting or a call to further explore this potential partnership.

Thank you for considering our request. We look forward to the possibility of working with you and contributing to the growth of 9Nutz Millets Private Limited in the millet-based food industry.

Yours sincerely,

Dr. P.S.Subha Pradha
Professor
Department of Business Management
9100999999

Principal
Aurora's PG College (MCA)
Uppal, Hyderabad-500092

PRINCIPAL
Aurora's PG College (MCA)
Peerzadiguda
Hyderabad

14-08-2023

To
Dr.P.S.Subha Pradha
Principal Investigator
Professor,
Department of Business Management
Aurora's PG College (MCA)
Peerzadiguda, Uppal
Hyderabad, Telangana

Subject: Acceptance of Consultancy Project on "Analysis of Customer Preferences for Gluten-Free Food Products"

REF: Lr No: AURA/R&D/2023/09, Dated 06-07-2023

Dear Dr.P.S.Subha Pradha,

With reference to the letter received as per the details mentioned above, we are pleased to inform you that 9Nutz Millets Private Limited has accepted your proposal for the consultancy project titled *"Analysis of Customer Preferences for Gluten-Free Food Products"*.We are happy with the findings and suggestions of the earlier project that was conducted during 2023-24 and leveraged on the business development effectively. Hence, we recognize the need for extension of this project to Rangareddy and Hyderabad districts and are keen about the potential insights it would bring to our business, especially regarding our market strategy for millet-based products in this geographic area.

As discussed, we would like to formally outline the following terms and conditions for the successful completion of this project:

1. Project Duration and Deliverables:

a. **Project Duration:** The consultancy project will have a duration of **5 months**, commencing on **16/08/2023** and concluding on **20/01/2024**.
b. **Key Deliverables:** A detailed report summarizing findings on consumer preferences, purchasing behavior, and other insights on millet-based food products, along with actionable recommendations for business strategy.

2. Financial Terms and Payment Structure:

The Amount sanctioned for the Project would be Rs 75,000 payable as per the terms mentioned below;

Payment Terms:

1. **80% Advance Payment** of Rs.60, 000 to be made upon signing of the agreement and commencement of the project.
2. **20% Balance Payment** of Rs.15, 000 upon successful completion of the project, submission, and acceptance of the final report.

3. Area of Consultancy:

The consultancy services will be focused on **Rangareddy and Hyderabad Districts** of Telangana state. All research activities, including surveys and focus group discussions, will be carried out within this geographic region.

4. Terms and Conditions:

a) Confidentiality:

Both parties agree to maintain strict confidentiality concerning any proprietary, sensitive, or confidential information exchanged during the course of the project. Dr. P.S.Subha Pradhaand his team shall not disclose, share, or use any confidential information for purposes other than the execution of the project.

b) Non-Disclosure Agreement (NDA):

A formal **Non-Disclosure Agreement (NDA)** shall be signed prior to the commencement of the project. This agreement will govern the sharing, use, and protection of any confidential data or intellectual property belonging to 9Nutz Millets Private Limited or the research team.

c) Mutual Trust and Cooperation:

Both parties acknowledge that this project will be executed in the spirit of mutual trust and cooperation. Regular communication and transparent reporting will be key to the success of the project. Any issues or challenges encountered during the project will be addressed promptly and professionally.

d) Intellectual Property:

All intellectual property developed during the project, including reports, findings, and research methodologies, shall remain the property of **9Nutz Millets Private Limited**. Dr. P.S.Subha Pradha and his team may retain the right to use the findings for academic purposes, but 9 Nutz shall hold the exclusive commercial rights.

e) No Conflict of Interest:

Dr. P.S.Subha Pradha confirms that there are no existing conflicts of interest that could affect the objectivity or outcome of the research project. The team shall work impartially and provide unbiased, data-driven insights.

f) Liability and Indemnification:

Dr. P.S.Subha Pradha and his team shall ensure that the project is conducted in compliance with all applicable laws and regulations. Any liability arising from the improper conduct of the research or violation of confidentiality will be the responsibility of the party at fault.

g) Termination:

Either party may terminate the agreement with prior notice of **30 days** in the event of non-compliance with the terms or if the project objectives cannot be reasonably met. In case of termination, the advance payment will be refunded on a pro-rata basis for the work not completed.

5. Acknowledgment and Acceptance:

Kindly acknowledge your acceptance of the above terms by signing and returning a copy of this letter as per the Acknowledgement and Acceptance provided at the end of this document.

We are confident that your expertise will provide valuable insights into customer preferences for millet-based foods, and we look forward to a successful collaboration. Should you have any questions or require further clarification, please feel free to reach out to us.

Thank you for your cooperation, and we are excited to begin this important study.

Yours sincerely,
Ms V Keerthana

Managing Director
9Nutz Millets Private Limited
Hyderabad, Telangana

Acknowledgment and Acceptance:

I, Dr. P.S.Subha Pradha, hereby acknowledge and accept the terms and conditions outlined above for the consultancy project title *Analysis of Customer Preferences for Gluten-Free Food Products*

Signature: _____

Date: _____ 16|8|2023

AURORA'S PG COLLEGE (MCA)
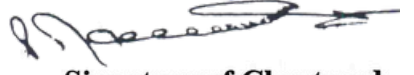
Peerzadiguda, Hyderabad-500092

www.apgcu.ac.in

Utilization Certificate

Certified that out of the grant of Rs.75,000(Seventy Five Thousand only) sanctioned by 9NUTZ Millets Pvt. Ltd., Hyderabad during the financial Year 2023-24 as per letter mentioned, a sum of Rs. 78,500 has been utilized for the purpose for which it was sanctioned.

S. No.	Category	Amount
1.	Networking and Secretarial Assistance	18,000
2.	Remuneration to Principal Investigator	8000
3.	Survey Forms distribution	18000
3.	Traveling and Conveyance Allowance	17000
4.	Printing and Stationary	14500
5.	Miscellaneous	3000
	Total	78500

1	Name of the Project	Consultancy Survey – Marketing
2	Name of funding agency	9 Nutz Millets Private Limited
3	Sanctioned Date	14th August, 2023
4	Total Grant	75,000
5	Grant sanctioned as First Instalment	60,000
6	Grant sanctioned as Second Instalment	15,000
7	Amount Utilized	78,500
8	Principal Investigator	Dr. P.S.Subha Pradha
9	Date of commencement	16/08/2023
10	Date of Completion	20/01/2024

Signature of the
Principal Investigator

Signature of Chartered
Accountant
P. RAMCHANDER RAO
M.No.: 024637
JAR & COMPANY
Chartered Accountants
B-104, Matrusri Apartments,
Hyderguda, Hyderabad - 29.

Signature of Head of the
Institution with Seal
Principal
Aurora's PG College (MCA)
Uppal, Hyderabad-500092

DVV Clarification for 3.1.1

Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

DOCUMENTARY EVIDENCES

3. Smart Irrigation System Using IoT and Soil Moisture Sensors

2023-24

To
Dr. Ashish Dilip Kumar
Principal Investigator
Associate Professor in Department of MCA
Aurora's PG College (MCA)
Peerzadiguda, Hyderabad.

Dear Dr. Ashish Dilip Kumar,

Subject: Acceptance of Consultancy Project on "Smart Irrigation System Using IoT and Soil Moisture Sensors"
Ref: Lr No: AURA/R&D/2023/02, dated 01-05-2023

We are pleased to inform you that Hackboats has reviewed your proposal for the consultancy project titled **"Smart Irrigation System Using IoT and Soil Moisture Sensors"**, and we are happy to extend our support for this initiative. After careful evaluation, we are pleased to confirm our participation in this project, which will span a period of **one year**, as per your outlined schedule.

Project Overview:

- **Project Name: Smart Irrigation System Using IoT and Soil Moisture Sensors**
- **Duration**: 12 months
- **Total Cost**: Rs.2,50,000 (Two Lakh Fifty Thousand Indian Rupees)
- **Payment Terms**: Payment will be made in installments based on project milestones, with the first installment of Rs.50,000 due upon project initiation and the remainder payable upon completion of agreed milestones.

Terms and Conditions:

1. **Confidentiality**: Both parties agree to treat all information, data, designs, concepts, and any proprietary information exchanged during the course of this project as confidential. This includes but is not limited to all documentation, software, hardware, and related research. Neither party shall disclose such information to any third party without prior written consent from the other party.

2. **Non-Disclosure Agreement (NDA)**: An NDA shall be signed by both parties to further protect any confidential or proprietary information shared during the project. This NDA will remain in effect both during and after the completion of the consultancy project for a period of 5 years.

3. **Exclusion Clause**: Hackboats shall not be held responsible for any failure or delay in the execution of the project due to force majeure events such as natural disasters, strikes, or government intervention. In case of any delay caused by unforeseen circumstances, both parties will mutually agree on an extension of the project timeline

4. **Intellectual Property**: Any intellectual property (IP) generated as part of the project, including but not limited to designs, algorithms, source code, and patents, will remain the exclusive property of **Hackboats** unless otherwise agreed in writing.

5. **Limitation of Liability**: Hackboats will not be liable for any indirect, incidental, or consequential damages arising from the implementation or use of the agriculture robots developed during the consultancy. Our responsibility is limited to the scope outlined in the project deliverables.

6. **Deliverables**: The project will follow the milestones and deliverables set forth in the project proposal, including but not limited to the development and testing of sensor-equipped robots, data analysis reports, and recommendations for optimization.

7. **Termination**: Either party may terminate the agreement with prior written notice of 30 days. In such an event, both parties will work together to ensure a smooth handover of any project outputs or data generated until that point.

8. **Governing Law**: This agreement will be governed by the laws of India, and any disputes arising from this consultancy project will be subject to the jurisdiction of the courts in Hyderabad, Telangana.

- **Miscellaneous**:Both parties agree to engage in regular progress meetings and reviews to ensure smooth implementation of the project.

- Any changes to the project scope or deliverables will be discussed and agreed upon in writing by both parties.

Estimated Project Breakdown:

On thorough scrutiny of the proposed budget, the Finance Department has sanctioned a budget of Rs,2, 50,000 for the consultancy project as per the following details:

Description	Cost (INR)
Research & Development (R&D)	80,000
Honorarium to Principal Investigator	20,000
Hardware & Sensor Components	50,000
Prototyping & Testing	40,000
Consultancy & Expert Time	30,000
Miscellaneous Expenses (Software, etc.)	30,000
Total	2,50,000

We are confident that this collaboration will lead to the successful development of an innovative solution for the agricultural sector. We look forward to working closely with your team on this exciting project. Thank you for the opportunity, and we look forward to a successful partnership.

Yours sincerely,

Managing Dire

AURORA'S PG COLLEGE (MCA)

Peerzadiguda, Hyderabad-500092
www.apgcu.ac.in

01-05-2023

Lr No: AURA/R&D/2023/02

Dr. Ashish Dilip Kumar
Associate Professor
Department of MCA
Aurora's PG College (MCA)
Peerzadiguda, Hyderabad

To
The Managing Director
Hackboats
Hyderabad, Telangana

// THROUGH PROPER CHANNEL//

Dear Sir/Madam,

Subject: Request for Consultancy Project on "Smart Irrigation System Using IoT and Soil Moisture Sensors"

I hope this letter finds you in the best of health and spirits.

I am Dr. Ashish Dilip Kumar, Associate Professor in the Department of MCA at Aurora's PG College (MCA), Peerzadiguda, Hyderabad. I am writing to formally request your esteemed organization, Hackboats, to collaborate with us on a consultancy project titled **"Smart Irrigation System Using IoT and Soil Moisture Sensors"**. We are keen to explore the potential of integrating robotics and sensor technologies to enhance agricultural practices, and we believe your expertise in innovation and technology development can significantly contribute to this endeavor.

The proposed project is envisioned to have a duration of **one year**, during which we aim to develop a prototype that can effectively address some of the critical challenges faced by the agriculture sector today, such as:

- Precision farming through automated monitoring of soil health, temperature, humidity, and crop conditions.
- Efficient and sustainable water management using sensor-equipped robots.
- Reduction in human labor and operational costs through automation of routine agricultural tasks.
- Optimizing the application of fertilizers and pesticides, leading to more eco-friendly farming practices.

The significance of robotics in agriculture cannot be overstated. With increasing global food demand, declining labor availability, and the pressing need for sustainability, robotic technology has emerged as a powerful solution to revolutionize agricultural practices. Robots equipped with advanced sensors can assist in monitoring and managing crops with high precision, ensuring better yields while reducing waste, resource consumption, and environmental impact.

We envision this project to be a multidisciplinary collaboration involving students, faculty members, and your team of experts. The outcomes of this project will not only benefit the agricultural sector but also contribute to the technological advancement in the realm of robotics and sensor technology. We are providing the proposed budget towards the estimated expenditure of the Project

S No	Description	Cost (INR)
1	Research & Development (R&D)	1,00,000
2	Honorarium to Principal Investigator	30,000
3	Hardware & Sensor Components	75,000
4	Prototyping & Testing	40,000
5	Consultancy & Expert Time	30,000
6	Miscellaneous Expenses (Software, etc.)	30,000
	Total	3,05,000

We kindly request your valuable support and collaboration in making this initiative a success. If you find this proposal of interest, we would be happy to discuss the details further at your earliest convenience.

Thank you for considering our request. I look forward to your positive response and the opportunity to work together on this exciting project.

Yours sincerely

Dr. Ashish Dilip Kumar
Associate Professor
Department of MCA
Aurora's PG College (MCA)
Peerzadiguda, Hyderabad

Principal
Aurora's PG College (MCA)
Uppal, Hyderabad-500092
PRINCIPAL
Aurora's PG College (MCA)
Peerzadiguda
Hyderabad

AURORA'S PG COLLEGE (MCA)

Peerzadiguda, Hyderabad-500092

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Utilization Certificate

Certified that out of the grant of Rs.2,50,000(Two Lakh Fifty Thousand only) sanctioned by Hackboats Pvt. Ltd., Hyderabad during the financial Year 2023-24, a sum of Rs. 2,68,000 has been utilized for the purpose for which it was sanctioned.

S. No.	Category	Amount
1.	Research & Development (R&D)	80.000
2.	Honorarium to Principal Investigator	20000
3.	Hardware & Sensor Components	68000
3.	Prototyping & Testing	40000
4.	Consultancy & Expert Time	30000
5.	Miscellaneous Expenses (Software. etc.)	30000
	Total	268000

1	Name of the Project	Consultancy Service-Robotics
2	Name of funding agency	Hackboats Pvt Limited
3	Sanctioned Date	10th June, 2023
4	Total Grant	2,50,000
5	Grant sanctioned as First Instalment	1,50,000
6	Grant sanctioned as Second Instalment	1,00,000
7	Amount Utilized	2,68,000
8	Name of Principal Investigator	Dr. Ashish Dilip Kumar
9	Date of commencement	11-06-2023
10	Date of Completion	09-05-2024

Signature of the Principal Investigator

Signature of Chartered Accountant

P. RAMCHANDER RAO
M.No.: 024637
JAR & COMPANY
Chartered Accountants
B-104, Matrusri Apartments,
Hyderguda, Hyderabad - 29.

Signature of Head of the Institution with Seal

Principal,
Aurora's PG College (MCA)
Uppal, Hyderabad-500092

DVV Clarification for 3.1.1

Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

DOCUMENTARY EVIDENCES

4. Augmented Reality Media Playback in Realtime

2022-23

AURORA'S PG COLLEGE (MCA)

Peerzadiguda, Hyderabad-500092

www.apgcu.ac.in

Date: 12-10-2022

To
The Managing Director
Nexaway Technologies
Hyderabad

Dear Sir/Madam,

Subject: Proposal for Consultancy Project on "Augmented Reality Media Playback in Realtime"
We are pleased to present a proposal for a consultancy project titled **"Augmented Reality Media Playback in Realtime,"** aimed at advancing augmented reality (AR) solutions for seamless media integration in real-time environments.

The project will be led by **Dr. Aslam Yakum Suriya**, Professor at **Aurora's PG College (MCA), Peerzadiguda, Hyderabad**, who brings extensive expertise in AR technologies, software development, and interactive systems design.

Technical Details
The project focuses on the following key objectives:

1. **Real-time Rendering and Playback:**
   - Development of algorithms to render high-resolution media content in real-time AR environments.
   - Optimization of playback systems to achieve low latency (<20 ms) and high frame rates (>60 FPS)

2. **Cross-Platform AR Framework:**
   - Building a robust framework compatible with ARKit, ARCore, and WebAR ecosystems.
   - Integration with cloud services for storage and streaming of media content.

3. **Interactive User Experience:**
   - Implementation of gesture-based controls for intuitive user interaction.
   - Real-time object recognition and tracking for context-aware media playback

4. **Testing and Validation:**
   - Performance evaluation under varied environmental conditions (e.g., lighting, occlusion)
   - User studies to validate usability and effectiveness

Deliverables

- A functional prototype demonstrating real-time AR media playback.
- Comprehensive documentation of system architecture, algorithms, and performance metrics.
- Final project report with insights and recommendations.

Budget Estimation

The total estimated project cost is Rs.1,00,000 segregated into the following heads:
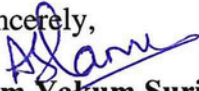
Head of the Expenditure	Description	Amount (¤)
Manpower Costs		
- Principal Investigator	Consultancy fee for **Dr. Aslam Yakum Suriya**	30,000
- Research Assistant(s)	Support staff for development & testing	10,000
Software and Tools		
- AR Development Tools	Licenses (Unity, ARKit, ARCore)	10,000
- Cloud Services	Storage and streaming services	10,000
Hardware Resources		
- AR Devices for Testing	Rental/usage costs (AR glasses etc)	10,000
Miscellaneous Expenses		
- Travel and Meetings	Travel to Nexaway Technologies	10,000
- Documentation and Reporting	Printing and administrative costs	5,000
- Contingency	For unforeseen expenses	10,000
Institutional Overheads (10%)	Institutional administration and support	5,000
Total Estimated Cost		1,00,000

Project Duration

The project will be completed within **4 Months** time from the date of initiation. We believe this collaboration will significantly benefit Nexaway Technologies by providing innovative AR solutions aligned with your strategic goals. We look forward to your approval and are happy to discuss further customizations or requirements at your convenience.

Thank you for considering this proposal.

Yours sincerely,

Dr. Aslam Yakum Suriya
Principal Investigator
Professor, Dept of Computer Applications
Aurora's PG College (MCA)
Peerzadiguda, Hyderabad
Ph: 9100222222

To   **Date:** 10-11-2022
Dr. Aslam Yakum Suriya
Principal Investigator
Professor, Department of Computer Applications
Aurora's PG College (MCA)
Peerzadiguda, Hyderabad

Subject: Acceptance of Consultancy Project Proposal on "Augmented Reality Media Playback in Realtime"

Dear Dr. Aslam Yakum Suriya,

We are pleased to formally accept your consultancy project proposal titled **"Augmented Reality Media Playback in Realtime."** We appreciate your efforts in presenting this innovative project, and we are confident that this collaboration will be mutually beneficial.

Terms and Conditions

Project Details: Augmented Reality Media Playback in Realtime

Duration: 4 Months

Consultancy Fee: Rs.50, 000 (inclusive of all applicable taxes) divisible into various heads as indicated in the proposal with a limitation of Rs 50,000 towards the honorarium for the Principal Investigator.

Confidentiality and Non-Disclosure Agreement:

- All data, documents, methodologies, and deliverables associated with this project shall remain strictly confidential.
- Both parties agree to adhere to a non-disclosure agreement (NDA) to protect sensitive information shared during the tenure of this project.

Intellectual Property:

The ownership of the intellectual property generated during the project shall be governed by mutual agreement and will align with the project objectives.

Jurisdiction:

Any disputes arising during the project shall be subject to the jurisdiction of the competent courts in Hyderabad, Telangana, India.

Tenure:

The project is to commence within two days of receipt of this letter and is to be completed within 4 months as per the agreed duration.

Timely communication and progress reports are expected during the project tenure.

Payment Terms:

The consultancy fee will be disbursed in two installments:
 50% on signing the agreement and project commencement
 50% on submission of the final deliverables and project completion

We look forward to a successful collaboration and assure you of our full cooperation and support during the project. Please let us know if you require any clarifications or additional information.

Kindly acknowledge acceptance of these terms by signing and returning a copy of this letter.

Yours Sincerely,

Managing Director
Nexaway Technologies Limited
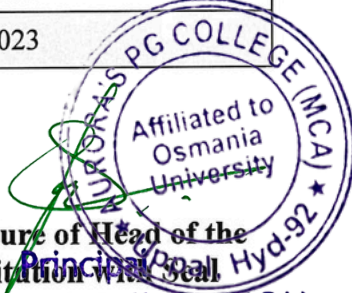Hyderabad
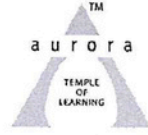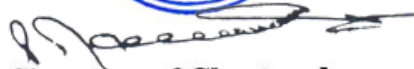
Utilization Certificate

Certified that out of the grant of Rs.1,00,000 (One Lakh only) sanctioned by Nexaway Technologies Private Limited Hyderabad during the financial Year 2022-23 as per letter mentioned, a sum of Rs. 1,20,000 has been utilized for the purpose for which it was sanctioned.

S. No.	Category	Amount
1.	Remuneration to Principal Investigator	30,000
2.	Research Assistants	15,000
3.	Software and Tools	15,000
3.	Hardware Tools	10,000
4.	Printing and Stationary	25,000
5.	Institutional Overheads	25,000
	Total	1,20,000

1	Name of the Project	Consultancy Service
2	Name of funding agency	Nexaway Technologies Private Limited
3	Sanctioned Date	10/11/2022
4	Total Grant	1,00,000
5	Grant sanctioned as First Instalment	50,000
6	Grant sanctioned as Second Instalment	50,000
7	Amount Utilized	1,20,000
8	Principal Investigator	**Dr. Aslam Yakum Suriya**
9	Date of commencement	12/11/2022
10	Date of Completion	15/03/2023

Signature of the
Principal Investigator

Signature of Chartered
Accountant
P. RAMCHANDER RAO
M.No.: 024637
JAR & COMPANY
Chartered Accountants
B-104, Matrusri Apartments,
Hyderguda, Hyderabad - 29.

Signature of Head of the
Institution
Aurora's PG College (MCA)
Uppal, Hyderabad-500092

DVV Clarification for 3.1.1

Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

DOCUMENTARY EVIDENCES

5. Predictive Analytics for Sales Forecasting

2022-23

SEMICOLON LOGIC

To

Dr. Shaik Mahaboob Sharief
Principal Investigator
Associate Professor
Department of Computer Applications
Aurora's PG College (MCA)
Peerzadiguda, Uppal
Hyderabad

Subject: Acceptance of Consultancy Project Proposal on **"Predictive Analytics for Sales Forecasting"**

Ref: Lr No: AURA/R&D/2022/07, dated 01-07-2022

Dear Dr. Shaik Mahaboob Sharief,

We are pleased to inform you that Semicolon Logic Private Limited accepts your proposal for the consultancy project titled "Predictive Analytics for Sales Forecasting." We appreciate your initiative and look forward to working with you on this important project.

Terms and Conditions:

1. **Project Duration:**

    The project duration is agreed upon as 4 Months from the commencement date.

2. **Consultancy Fee:**

    The total consultancy fee for the project is Rs. 50,000/- (Fifty thousand only).

3. **Honorarium to Principal Investigator:**

    The honorarium allocated to the Principal Investigator is limited to Rs. 8,000/-.

4. **Confidentiality:**

    Both parties agree to maintain strict confidentiality of all data, information, and materials shared or generated during the project.

    The data provided by Semicolon Logic Private Limited shall only be used for the purpose outlined in the proposal and shall not be disclosed to any third party without prior written consent.

5. **Non-Disclosure Agreement (NDA):**

A formal NDA will be signed by both parties before the commencement of the project to ensure the safeguarding of proprietary and sensitive information.

6. **Deliverables and Reporting:**

The project deliverables, including data analysis results, dashboards, and training materials, must be submitted as per the agreed schedule.

Progress updates must be provided weekly during the project duration.

7. **Jurisdiction:**

Any disputes arising from this project will fall under the jurisdiction of the courts in Hyderabad.

Please acknowledge your acceptance of the terms and conditions mentioned above by signing a copy of this letter and returning it to us at the earliest. We look forward to a successful collaboration.

Warm regards,

Managing Director
Semicolon Logic Private Limited
Hyderabad

AURORA'S PG COLLEGE (MCA)

Peerzadiguda, Hyderabad-500092

www.apgcu.ac.in

01-07-2022

Lr No: AURA/R&D/2022/07

To

The Managing Director
Semicolon Logic Private Limited
Hyderabad

//THROUGH PROPER CHANNEL//

Subject: Request for Consultancy Project on **"Predictive Analytics for Sales Forecasting"**

Dear Sir/Madam,

I, Dr. Shaik Mahaboob Sharief , Professor, Department of Computer Applications, Aurora's PG College (MCA), Peerzadiguda, Uppal, am privileged to propose a consultancy project titled **"Predictive Analytics for Sales Forecasting"** for your esteemed organization as Principal Investigator. With the increasing need for data-driven decision-making, this project aims to provide advanced analytical solutions and intuitive visualization techniques tailored to your business requirements.

Scope of the Project: The consultancy project will encompass:

- Provide accurate sales forecasts to optimize inventory, staffing, and resource allocation.

- Business stakeholders: Sales managers, marketing teams, and finance departments.

- Incorporate external factors such as seasonality, economic indicators, and market trends.

- Determine the forecasting horizon (short-term, medium-term, or long-term)

- Perform sensitivity analysis to assess the impact of variables on forecasts.

- Integrate predictive analytics with CRM, ERP, and supply chain systems.

Project Duration: The proposed duration for the project is 4 Months.

Consultancy Fee: The total fee for this consultancy project is Rs. 65,000/- (Sixty-five thousand only).
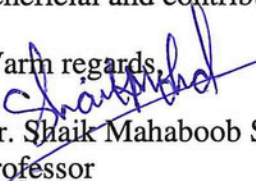
Proposed Division of Heads of Expenditure: The consultancy fee will be allocated under the following heads:

Head of Expenditure	Amount (INR)
Data Analysis and Processing	35,000
Honorarium to the Principal Investigator	10000
Training and Documentation	15,000
Miscellaneous	5,000
Total	65000

I assure you of the highest level of commitment, professionalism, and quality in delivering this project. I look forward to your positive response and am happy to discuss any further details or clarifications required.

Thank you for considering this proposal. I am confident that this collaboration will be mutually beneficial and contribute significantly to your organizational goals.

Warm regards,

Dr. Shaik Mahaboob Sharief
Professor
Department of Computer Applications
Aurora's PG College (MCA)
Peerzadiguda, Uppal
Ph: 9491101155

Principal
Aurora's PG College (MCA)
Uppal, Hyderabad-500092
PRINCIPAL
Aurora's PG College (MCA)
Peerzadiguda
Hyderabad

AURORA'S PG COLLEGE (MCA)

Peerzadiguda, Hyderabad-500092

www.apgcu.ac.in

Utilization Certificate

Certified that out of the grant of Rs.50,000(Fifty Thousand only) sanctioned by Semicolon Logic Pvt Ltd., Hyderabad during the financial Year 2022-23 as per letter mentioned, a sum of Rs. 52,500 has been utilized for the purpose for which it was sanctioned.

Head of Expenditure	Amount (INR)
Data Analysis and Processing	28,000
Honorarium to the Principal Investigator	8000
Training and Documentation	12,000
Miscellaneous	4,500
Total	52500

1	Name of the Project	Consultancy Survey – Computer Applications
2	Name of funding agency	Semicolon Logic Pvt Ltd
3	Sanctioned Date	20-07-2022
4	Total Grant	50,000
5	Grant sanctioned as First Instalment	40,000
6	Grant sanctioned as Second Instalment	10,000
7	Amount Utilized	52,500
8	Principal Investigator	Dr. Shaik Mahaboob Sharief
9	Date of commencement	01/09/2022
10	Date of Completion	05/01/2023

Signature of the
Principal Investigator

Signature of Chartered
Accountant

P. RAMCHANDER RAO
M.No.: 024637
JAR & COMPANY
Chartered Accountants
B-104, Matrusri Apartments,
Hyderguda, Hyderabad - 29.

Signature of Head of the
Institution with Seal
Aurora's PG College (MCA)
Uppal, Hyderabad-500092

DVV Clarification for 3.1.1

Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

DOCUMENTARY EVIDENCES

6. Analysis of Customer Preferences
for Gluten-Free Food Products

2022-23

08-09-2022

Lr No: AURA/R&D/2022/12

Dr P.S.Subha Pradha
Principal Investigator
Professor,
Department of Business Management
Aurora's PG College (MCA)
Peerzadiguda, Uppal
Hyderabad, Telangana

To
The Managing Director
9Nutz Millets Private Limited
Hyderabad, Telangana

// THROUGH PROPER CHANNEL//

Subject: Request for Consultancy Project on "Analysis of Customer Preferences for Gluten-Free Food Products"

Dear V. Keerthana

I hope this letter finds you well. My name is Dr P.S.Subha Pradha, and I currently working as Professor in the Department of Business Managementat Aurora's PG College (MCA), Peerzadiguda, Uppal, Hyderabad. I am writing to formally request the opportunity for a consultancy project in collaboration with your esteemed organization, 9Nutz Millets Private Limited, to undertake a comprehensive study on *Analysis of Customer Preferences for Gluten-Free Food Products.* As you are aware, millets are emerging as a highly nutritious and sustainable food option, and there is increasing consumer interest in millet-based products due to their health benefits and eco-friendly nature.

Given your company's involvement in the production and marketing of innovative millet based food products, I believe that a detailed study on customer preferences in this segment would provide valuable insights that can assist in refining product offerings, improving market positioning, and enhancing customer engagement.
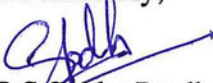
The objective of the proposed study will be to analyze consumer behavior, preferences, and purchasing patterns related to millet-based food products. The research will involve surveys, focus group discussions, and data analytics, with the aim of identifying key drivers behind customer choices, potential barriers to adoption, and opportunities for growth within this niche market.

I, along with my team of MBA students and faculty members, would be honored to partner with 9 Nutz Millets Private Limited to carry out this project. Our team brings with it a wealth of expertise in market research, consumer behavior analysis, and strategic management, and we are confident that our insights will provide actionable recommendations that could benefit your business.

We would be grateful if you could provide us with the opportunity to collaborate on this project. I am available to discuss the specifics of the consultancy, including timelines, deliverables, and any other requirements you may have, at your convenience. Kindly let me know a suitable time for a meeting or a call to further explore this potential partnership.

Thank you for considering our request. We look forward to the possibility of working with you and contributing to the growth of 9Nutz Millets Private Limited in the millet-based food industry.

Yours sincerely,

Dr P.S.Subha Pradha
Professor
Department of Business Management
9100999999

Principal
Aurora's PG College (MCA)
Uppal, Hyderabad-500092
PRINCIPAL
Aurora's PG College (MCA)
Peerzadiguda
Hyderabad

9NUTZ Millets Pvt. Ltd.

Suraram Colony, Muthiah Nagar,
Hyderabad, Telangana - 500 050
www.9nutz.in

30-09-2022

To
Dr P.S.Subha Pradha
Principal Investigator
Professor,
Department of Business Management
Aurora's PG College (MCA)
Peerzadiguda, Uppal
Hyderabad, Telangana

Subject: Acceptance of Consultancy Project on " Analysis of Customer Preferences for Gluten-Free Food Products REF: Lr No: AURA/R&D/2022/12, Dated 08-09-2022

Dear Dr P.S.Subha Pradha,

With reference to the letter received as per the details mentioned above, we are pleased to inform you that 9Nutz Millets Private Limited has accepted your proposal for the consultancy project titled *"Analysis of Customer Preferences for Gluten-Free Food Products."* We recognize the importance of this project and are excited about the potential insights it will bring to our business, especially regarding our market strategy for millet-based products.

As discussed, we would like to formally outline the following terms and conditions for the successful completion of this project:

1. Project Duration and Deliverables:

a. **Project Duration:** The consultancy project will have a duration of **5 months**, commencing on **01/10/2022** and concluding on **03/02/2023**.
b. **Key Deliverables:** A detailed report summarizing findings on consumer preferences, purchasing behavior, and other insights on millet-based food products, along with actionable recommendations for business strategy.

2. Financial Terms and Payment Structure:

The Amount sanctioned for the Project would be Rs 75,000 payable as per the terms mentioned below;

Payment Terms:

1. **80% Advance Payment** of Rs.60, 000 to be made upon signing of the agreement and commencement of the project.
2. **20% Balance Payment** of Rs.15, 000 upon successful completion of the project, submission, and acceptance of the final report.

3. Area of Consultancy:

The consultancy services will be focused on **Medchal-Malkajgiri District**, Hyderabad. All research activities, including surveys and focus group discussions, will be carried out within this geographic region.

4. Terms and Conditions:

a) Confidentiality:

Both parties agree to maintain strict confidentiality concerning any proprietary, sensitive, or confidential information exchanged during the course of the project. Dr. M.V. Surya Narayana and his team shall not disclose, share, or use any confidential information for purposes other than the execution of the project.

b) Non-Disclosure Agreement (NDA):

A formal **Non-Disclosure Agreement (NDA)** shall be signed prior to the commencement of the project. This agreement will govern the sharing, use, and protection of any confidential data or intellectual property belonging to 9Nutz Millets Private Limited or the research team.

c) Mutual Trust and Cooperation:

Both parties acknowledge that this project will be executed in the spirit of mutual trust and cooperation. Regular communication and transparent reporting will be key to the success of the project. Any issues or challenges encountered during the project will be addressed promptly and professionally.

d) Intellectual Property:

All intellectual property developed during the project, including reports, findings, and research methodologies, shall remain the property of **9Nutz Millets Private Limited**. Dr. M.V. Surya Narayana and his team may retain the right to use the findings for academic purposes, but 9 Nutz shall hold the exclusive commercial rights.

e) No Conflict of Interest:

Dr P.S.Subha Pradhaconfirms that there are no existing conflicts of interest that could affect the objectivity or outcome of the research project. The team shall work impartially and provide unbiased, data-driven insights.

f) Liability and Indemnification:

Dr P.S.Subha Pradhaand his team shall ensure that the project is conducted in compliance with all applicable laws and regulations. Any liability arising from the improper conduct of the research or violation of confidentiality will be the responsibility of the party at fault.

g) Termination:

Either party may terminate the agreement with prior notice of **30 days** in the event of non-compliance with the terms or if the project objectives cannot be reasonably met. In case of termination, the advance payment will be refunded on a pro-rata basis for the work not completed.

5. Acknowledgment and Acceptance:

Kindly acknowledge your acceptance of the above terms by signing and returning a copy of this letter as per the Acknowledgement and Acceptance provided at the end of this document.

We are confident that your expertise will provide valuable insights into customer preferences for millet-based foods, and we look forward to a successful collaboration. Should you have any questions or require further clarification, please feel free to reach out to us.

Thank you for your cooperation, and we are excited to begin this important study.

Yours sincerely,
Ms V Keerthana

Managing Director
9Nutz Millets Private Limited
Hyderabad, Telangana

Acknowledgment and Acceptance:

I, Dr P.S.Subha Pradha, hereby acknowledge and accept the terms and conditions outlined above for the consultancy project titled "Analysis of Customer Preferences for Gluten-Free Food Products."
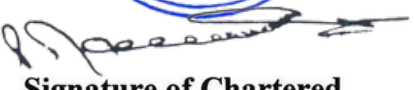
Signature: _____

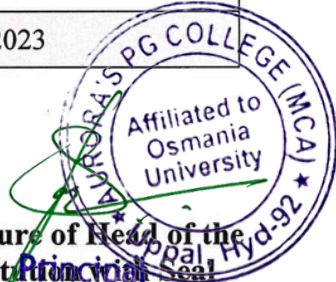Date: _____ 3|10|2022

Utilization Certificate

Certified that out of the grant of Rs.75,000(Seventy Five Thousand only) sanctioned by 9NUTZ Millets Pvt. Ltd., Hyderabad during the financial Year 2022-23 as per letter mentioned, a sum of Rs. 76,000 has been utilized for the purpose for which it was sanctioned.

S. No.	Category	Amount
1.	Printers and other equipment	20,000
2.	Remuneration to Principal Investigator	8000
3.	Survey Forms distribution	15500
3.	Traveling and Conveyance Allowance	12000
4.	Printing and Stationary	18500
5.	Miscellaneous	2000
	Total	76000

1	Name of the Project	Consultancy Survey – Marketing
2	Name of funding agency	9 Nutz Millets Private Limited
3	Sanctioned Date	30th September, 2022
4	Total Grant	75,000
5	Grant sanctioned as First Instalment	60,000
6	Grant sanctioned as Second Instalment	15,000
7	Amount Utilized	76,000
8	Name of Principal Investigator	Dr P.S.Subha Pradha
9	Date of commencement	03/10/2022
10	Date of Completion	10/03/2023

Signature of the Principal Investigator

Signature of Chartered Accountant

P. RAMCHANDER RAO
~ M.No.: 024637
JAR & COMPANY
Chartered Accountants
B-104, Matrusri Apartments,
Hyderguda, Hyderabad - 29.

Signature of Head of the Institution

Principal
Aurora's PG College (MCA)
Uppal, Hyderabad-500092

DVV Clarification for 3.1.1

Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

DOCUMENTARY EVIDENCES

7. AI Companion for Healthcare Professionals

2021-22

AURORA'S PG COLLEGE (MCA)
Peerzadiguda, Hyderabad-500092
www.apgcu.ac.in

05-06-2021

Lr No: AURA/R&D/2021/05

To
The Manager
MaraManishi Technologies Private Limited
Mallipalem, East Godavari District
Andhra Pradesh

Subject: Request for Consultancy Services on AI Companion for Healthcare Professionals

Dear Sir/Madam,

I, Dr. Venkata Mangarao, Associate Professor, Department of Computer Applications, Aurora's PG College (MCA), Peerzadiguda, Uppal, am writing to formally request consultancy services from MaraManishi Technologies Private Limited for the development and deployment of an **AI Companion for Healthcare Professionals**. This initiative aims to enhance the efficiency and decision-making capabilities of healthcare professionals through innovative AI solutions.

Given the reputation and expertise of MaraManishi Technologies in delivering AI Companion for Healthcare Professionals, we believe your team is uniquely positioned to assist us in achieving our objectives. The consultancy will encompass the following key deliverables:

1. Understand Your Target Audience.
2. High-Quality Content Creation.
3. Clinical Decision Support.
4. Continuous Learning.
5. Keep Up With Trends.
6. Plan and Update Regularly.

We propose a consultancy fee of Rs. **1,50,000** for this project, which will span a time period of **2 years**. Below is the proposed expenditure for the project under various heads:

Head of Expenditure	Amount (INR)
Requirement Analysis & Design	20,000
Honorarium to the Principal Investigator	10,000
Development & Implementation	70,000
Training & Support	30,000
Maintenance & Updates	20,000
Total	**1,50,000**

Your contribution will not only help us achieve our vision but also set a benchmark for future AI applications in the healthcare sector. We look forward to your positive response and are eager to discuss the scope and terms of the consultancy further.

Thank you for considering this request. I am confident that this collaboration will be mutually rewarding and will greatly contribute to the achievement of your organizational objectives.
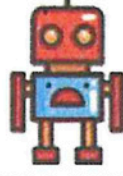
Yours sincerely,

Dr. Venkata Mangarao

Associate Professor

Department of Computer Applications

Aurora's PG College (MCA)

Peerzadiguda, Uppal, Hyderabad

Date: 30-06-2021

To

Dr. Venkata Mangarao
Principal Investigator
Associate Professor
Department of Computer Applications
Aurora's PG College (MCA)
Peerzadiguda, Uppal
Hyderabad

Subject: Acceptance of Consultancy Project Proposal on **"AI Companion for Healthcare Professionals"**

Ref: Lr No: AURU/R&D/2021/05, dated 05-06-2021

Dear Dr. Venkata Mangarao,

We are pleased to inform you that MaraManishi Technologies Private Limited accepts your proposal for the consultancy project titled **"AI Companion for Healthcare Professionals."** We appreciate your initiative and look forward to collaborating on this innovative and impactful project.

Terms and Conditions:

1. **Project Duration:**

   The project duration is agreed upon as **2 years** from the commencement date.

2. **Consultancy Fee:**

   The total consultancy fee for the project is **₹1,50,000/- (One Lakh Fifty Thousand only).**

3. **Honorarium to Principal Investigator:**

   The honorarium allocated to the Principal Investigator is limited to Rs. 8,000/-.

4. **Confidentiality:**

Both parties agree to maintain strict confidentiality of all data, information, and materials shared or generated during the project.

The data provided by MaraManishi Technologies Private Limited shall only be used for the purpose outlined in the proposal and shall not be disclosed to any third party without prior written consent.

5. **Non-Disclosure Agreement (NDA):**

A formal NDA will be signed by both parties before the commencement of the project to ensure the safeguarding of proprietary and sensitive information.

6. **Deliverables and Reporting:**

The project deliverables, including AI solutions, training materials, and regular updates, must be submitted as per the agreed schedule.

Progress updates must be provided quarterly during the project duration.

7. **Jurisdiction:**

Any disputes arising from this project will fall under the jurisdiction of the courts in Hyderabad.

Please acknowledge your acceptance of the terms and conditions mentioned above by signing a copy of this letter and returning it to us at the earliest. We look forward to a successful collaboration.

Warm regards,

Managing Director
MaraManishi Technologies Private Limited
Mallipalem, East Godavari District
Andhra Pradesh

AURORA'S PG COLLEGE (MCA)

Peerzadiguda, Hyderabad-500092

www.apgcu.ac.in

Utilization Certificate

Certified that out of the grant of Rs.1,50,000(One Lakh Fifty Thousand only) sanctioned by MaraManishi Technologies Private Limited, Mallipalem, East Godavari District during the financial Year 2021-22 as per letter mentioned, a sum of Rs. 1,50,000 has been utilized for the purpose for which it was sanctioned.

S. No.	Category	Amount
1.	Requirement Analysis & Design	36,000
2.	Honorarium to the Principal Investigator	8000
3.	Development & Implementation	52,000
4.	Training & Support	24,000
5.	Maintenance & Updates	30,000
	Total	1,50,000

1	Name of the Project	Consultancy Survey – Computer Applications
2	Name of funding agency	MaraManishi Technologies Private Limited
3	Sanctioned Date	30th June, 2021
4	Total Grant	1,50,000
5	Grant sanctioned as First Instalment	1,00,000
6	Grant sanctioned as Second Instalment	50,000
7	Amount Utilized	1,80,000
8	Principal Investigator	Dr. Venkata Mangarao
9	Date of commencement	01/07/2021
10	Date of Completion	30/06/2023

Signature of the
Principal Investigator

Signature of Chartered
Accountant
P. RAMACHANDER RAO
M.No.: 024637
JAR & COMPANY
Chartered Accountants
B-104, Matrusri Apartments,
Hyderguda, Hyderabad - 29.

Signature of Head of the
Institution Principal
Principal Seal

Affiliated to
Osmania
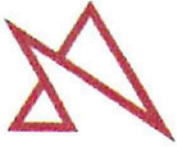University

Aurora's PG College (MCA)
Uppal, Hyderabad-500092

DVV Clarification for 3.1.1

Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

DOCUMENTARY EVIDENCES

8. User Acceptance Testing (UAT) Process Management

2019-20

SEMICOLON LOGIC

To

Dr. T. Venkata Satya Vivek
Associate Professor
Principal Investigator
Department of Computer Applications
Aurora's PG College (MCA)
Peerzadiguda, Uppal
Hyderabad

Subject: Acceptance of Consultancy Project Proposal on "**User Acceptance Testing (UAT) Process Management**"

Ref: Lr No: AURA/R&D/2019/06, dated 01-07-2019

Dear Dr. T. Venkata Satya Vivek,

We are pleased to inform you that Semicolon Logics Private Limited accepts your proposal for the consultancy project titled "User Acceptance Testing (UAT) Process Management." We are confident that this project will greatly contribute to enhancing the software quality and testing protocols in our organization.

Terms and Conditions:

1. **Project Duration:**

    The project duration is agreed upon as 5 months, commencing from the date of signing this agreement.

2. **Consultancy Fee:**

    The total consultancy fee for the project is Rs. 60,000/- (Sixty thousand only).

3. **Payment Schedule:**

    Rs. 50,000/- (Fifty thousand only) will be paid as the first installment upon signing this agreement.

    The remaining Rs. 10,000/- (Ten thousand only) will be paid upon successful completion of the project and submission of all deliverables.

4. **Deliverables and Reporting:**

    The project deliverables must include the finalized quality assurance framework, testing strategies, detailed documentation, and training sessions as outlined in your proposal.

    Progress reports must be submitted monthly to ensure alignment with the project timeline.

5. Confidentiality:

Both parties agree to maintain strict confidentiality of all data, information, and materials shared or generated during the project.

The data provided by Semicolon Logics Private Limited shall only be used for the purpose outlined in the proposal and shall not be disclosed to any third party without prior written consent.

6. Jurisdiction:

Any disputes arising from this project will fall under the jurisdiction of the courts in Hyderabad.

Please acknowledge your acceptance of the terms and conditions mentioned above by signing a copy of this letter and returning it to us at the earliest. We look forward to a successful collaboration.

Warm regards,

Managing Director

Semicolon Logic Private Limited
Hyderabad
Email: info@semicolon.in

AURORA'S PG COLLEGE (MCA)
Peerzadiguda, Hyderabad-500092
www.apgcu.ac.in

01-07-2019

Lr No: AURA/R&D/2019/06

To

Managing Director
Semicolon Logic Private Limited
Hyderabad

Subject: Request for Consultancy Project on "User Acceptance Testing (UAT) Process Management"

Dear Sir/Madam,

Let me introduce myself, this is Dr. T. Venkata Satya Vivek, Associate Professor, Department of Computer Applications, Aurora's PG College (MCA), Peerzadiguda, Uppal, Hyderabad. I take it as a privilege to propose a consultancy project titled "**User Acceptance Testing (UAT) Process Management**" for your esteemed organization. This project aims to establish a comprehensive framework for enhancing software quality and ensuring rigorous testing protocols tailored to meet your organizational needs.

Scope of the Project: The consultancy project will include:

- Validate that the system meets business requirements..
- Ensure user satisfaction and usability.
- Verify functional correctness and integration with other systems.
- Define what is included and excluded from UAT.
- Identify specific modules, features, or integrations to be tested.
-

Project Duration

The proposed duration for the project is 5 months.

Project Cost

The total cost for this consultancy project is Rs. 75,000/- (Seventy-five thousand only), which will be distributed across the following heads:

Head of Expenditure	Amount (INR)
Framework Development	25,000
Testing Strategy Implementation	15,000
Honorarium for Principal Investigator	10,000
Documentation and Reporting	15,000
Training Sessions	10,000
Total	75,000

I assure you of delivering high-quality outcomes and maintaining professional excellence throughout the project duration. I am happy to discuss any details or modifications to ensure the project aligns with your expectations and requirements.

Thank you for considering this proposal. I look forward to your positive response and the opportunity to collaborate on this significant initiative.

Warm regards,

Dr. T. Venkata Satya Vivek
Associate Professor
Department of Computer Applications
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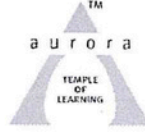
AURORA'S PG COLLEGE (MCA)

Peerzadiguda, Hyderabad-500092
www.apgcu.ac.in

Utilization Certificate

Certified that out of the grant of Rs.60,000(Sixty Thousand only) sanctioned by Semicolon Logic Pvt Ltd., Hyderabad during the financial Year 2019-20 as per letter mentioned, a sum of Rs. 60,800 has been utilized for the purpose for which it was sanctioned.

Head of Expenditure	Amount (INR)
Framework Development	21,000
Testing Strategy Implementation	13,000
Honorarium for Principal Investigator	10,000
Documentation and Reporting	12,800
Training Sessions	4,000
Total	60,800

1	Name of the Project	Consultancy – Computer Applications
2	Name of funding agency	Semicolon Logic Pvt Ltd
3	Sanctioned Date	01-08-2019
4	Total Grant	60000
5	Grant sanctioned as First Instalment	50000
6	Grant sanctioned as Second Instalment	10,000
7	Amount Utilized	60800
8	Name of the Principal Investigator	Dr. T. Venkata Satya Vivek
9	Date of Commencement	05/08/2019
10	Date of Completion	10/01/2020

Signature of the
Principal Investigator

P. RAMCHANDER RAO
M.No.: 024637
Signature of Chartered
Accountant
JAR & COMPANY
Chartered Accountants
B-104, Matrusri Apartments,
Hyderguda, Hyderabad - 29.

Signature of Head of the
Institution with Seal
Principal
Aurora's PG College (MCA)
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