

Smita S. Mule Head, AKRUTI Technology Section, BARC, Trombay, Mumbai-400085 Tel 91 - 22 - 25593896 FAX 91 - 22 - 25505151 akruti@barc.gov.in



GOVERNMENT OF INDIA BHABHA ATOMIC RESEARCH CENTRE KNOWLEDGEMANAGEMENT GROUP AKRUTI TECHNOLOGY SECTION

Ref: AKTS/ AKTP-110 / SM-BAB/ 2021/ 30

December , 2021

Dear Dr. Mrunalini Fadnvis,

Sub: AKRUTI Tech Plus (ATP) - Original Agreement

Further to your visit to BARC on 10th November'2021 for signing AKRUTI Tech Plus Agreement and visit to various research labs at BARC, find enclosed herewith the 1 set of original AKRUTI Tech Plus (ATP) Agreement for your retention. The agreement between BARC and Punnyashlok Ahilyadevi Holkar Solapur University, Solapur for AKRUTI Tech Plus for Deployment in Rural and Semi Urban Sector is duly signed by Dr.A.P.Tiwari, Director, Knowledge Management Group, BARC.

Effective date of Agreement is to be considered as 30th November, 2021.

Your ATP ID is: ATP - 110 - 2021 (18)

We thankfully acknowledge personally handing over of Demand Draft No. 239183 of Rs.1, 03,500 /- dtd. 2 nd Nov'2021 towards license charges of following technologies:

NDWP, DWP, RAPID BIOCOMPOST, FRUIT CUBES, VTD, SD, FSD, TERM TC, BTC, MICRO NEEM, IM SHRIMP, FISH SOUP, BGP, JAMUN PRODUCT, STK. Technology deployment documents for above 16 technologies have been handed over to you on 10 th Nov 2021 vide gate pass no 60371 dtd. 10 th Nov 2021 vide gat

as at B. C.C., E. Sonolosed here with the I set of origina AKRUTT Tech Pius (ATP) Agreement for your

Ted Firs for Deployment in Free and Sem Urber Suppr is only signed by In A.P. Tweed, Director.

Kindly acknowledge receipt of the enclosed agreementayasta ck Ani yadevi Holkar Solapur Jaiver ty, Solapur (cr

For advance intimation, scan copy has already been emailed on dtd.3 rd Dec'2021 to, Dr. Mrs. A.S. Lawand, Asst. Professor and Principal Investigator of Project AKRUTI, School of Chemical Sciences, PAH Solapur University Solapur.

With good wishes

Encl. a.a.

Funyashlok Ahilyadayi Holkal S.c. hour University, Solapur 104 Solaphin Vice - Chancellor DULLONDES (1981) 1800 1

Yours sincerely

239183 of R. I. 03,500 /- dtd 2 15

Dr.Mrinalini Fadnvis,

Hon, Vice Chancellor,
Punyashlok Ahilyadevi Holkar Solapur University

Dyanteerth Nagar, Kegaon,

Solapur-Pune National Highway,

Solapur, Maharashtra, Pin - 413255

A Carlo Id I

House VC Punyashlok Ahilyadevi Holkar Solapur University, Solapur

Inward No.

Section

ATP ID

VID III

ATP-110-2001(18)

ATP-110-2021(18)

AGREEMENT

BETWEEN

BHABHA ATOMIC RESEARCH CENTRE, MUMBAI

AND

PUNYASHLOK AHILYADEVI HOLKAR SOLAPUR UNIVERSITY SOLAPUR, MAHARASHTRA

FOR

BETARIE

BLIAL MA ATENIC RESHARGH CENTRE,

AKRUTI TECH PLUS FOR

DEPLOYMENT IN RURAL/SEMI-URBAN SECTOR

SOLATION, VIAHARASHTRA

(UNDER THE FRAMEWORK OF DAE-SOCIETAL INITIATIVE)
[SPECIAL CONCESSION ON LICENSE CHARGES DUE TO COVID]

Year - 2021

urwii shwii-urban shordi





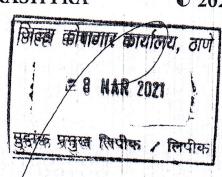
ARION RUDIERA

महाराष्ट्र MAHARASHTRA

O 2020 O

YB 513467





AGREEMENT BETWEEN BHABHA ATOMIC RESEARCH CENTRE (BARC), MUMBAI AND PUNYASHLOK AHILYADEVI HOLKAR SOLAPUR UNIVERSITY, SOLAPUR, MAHARASHTRA FOR 'AKRUTI TECH PLUS' FOR DEPLOYMENT IN RURAL/ SEMI-URBAN SECTOR (UNDER THE FRAMEWORK OF DAE SOCIETAL INITIATIVE) [SPECIAL CONCESSION ON LICENSE CHARGES DUE TO COVID]

The Agreement made between BHABHA ATOMIC RESEARCH CENTRE (BARC), Trombay, Mumbai - 400085, Maharashtra, Department of Atomic Energy (DAE), Government of India (hereinafter called 'BARC', which expression shall include its successors-in interest and assigns), of the first part

Punyashlok Ahilyadevi Holkar Solapur University, Solapur located at Dyanteerth Nagar, Kegaon, Solapur-Pune National Highway, Solapur, Pin -413255, Maharashtra, India (hereinafter called Punyashlok Ahilyadevi Holkar Solapur University, Solapur, which expression shall include its successors-in intrest & assigns) of the other part.

Page 2 of 11

Solapur

THATTA APCIMIC RESEARCE

Malainerra, Exparament of Adamic Energy (DAE),

PREAMBLE

Whereas BARC is a premier multidisciplinary R&D organization under the Department of Atomic Energy, Government of India, engaged in research with the objective of generating knowledge and technique for nuclear power generation, advancement of science, use of radioisotopes in industry, health and agriculture, research in frontier areas of science and technology. Under the framework of DAE societal initiative, based on the development of Non-Power Applications (NPAs) and Spin-off technologies (Spinoffs) in medical, food preservation, waste management, other industrial and rural applications at BARC, a structured programme has been evolved for Advanced Knowledge and RUral Technology Implementation (AKRUTI) for techno economic growth of Rural/ semi-Urban areas, as one of the many schemes for Large-Scale Deployment of NPAs and Spinoffs. AKRUTIs operated through NGOs have demonstrated the usefulness of BARC technologies and scope for techno-preneurship in Rural/ semi-Urban sector. AKRUTI Technologies has been designed and offered at a very affordable price to encourage and promote techno-preneurship for deployment of technologies exclusively in Rural/ semi-Urban power gentration, advancement of science sector.

Whereas

after the framework of TAE societal by wrive, based on the development of from-Punyashlok Ahilyadevi Holkar Solapur University formerly 'Solapur University' was established in year 2004 by the Government of Maharashtra vide Gazette No. USG-1004/(9412004)/UNI-1 dated 22 July 2004. It is a young University with jurisdiction of only one district and has made substantial progress in academics and research within a span of 16 years. The university campus is sprawled across 512 acres surrounded by natural greenery. University has 11 schools offering postgraduate courses in 36 programs out of this 18 are the new programs started from 2018. The University has four major faculties' Faculty of Science & Technology, Faculty of Commerce & Management, Faculty of Humanities and Faculty of Interdisciplinary Studies. The university has made a vibrant progress in research in the frontier areas of Physical, Chemical, Earth Science, Computational, Cosmetic Technology, Social Science, Fine Arts, Languages, Commerce and Management, Allied Health Sciences and Life Science. The university is poised for an ambitious growth and is becoming a hub of various academic activities. The University has an innovation and incubation center. Government of Meharashtra wide Gazere No. USG-

From 6th March 2019, the name of University was expanded with the legendary personality Ahilyadevi Holkar. Her work related to inclusive social elements and governance is also practiced in the University. A Library building stacks 30,000+ books, 114 National Journals, 31 International Journals, ICT and internet facilities provide access to J-Gate and Delnet that provides 30000+ journals. Currently, there are about 15 Ph.D., 3 M.Phil., 15 M.Sc., 01 M.C.A., 16 M.A., 01 M.Com., 01 M.Tech., 01 MBA, 01 Health Science, 02 P.G. Diploma and 57 certificate courses in the University. A total of 633 research papers are published in peer referred journals. The impact

Page 3 of 11

ngarational :: Runyashlok AhilyadévidHolkari Solaptin University (Solaptar

and agriculture, it same in fronter meas of science and

, Phird Health Sciences and Life Science. The university is Will greath and gray propagather of various neadernic activities. The

Holkar Solapur University, Solapur to utilize the BARC developed technologies contained in AKRUTI Tech Plus for deployment exclusively in Rural and semi-Urban sector of India with a perpetual license from the date this Agreement becomes effective as per the terms and conditions stipulated in this Agreement.

4. RESPONSIBILITIES OF BARC AND MODE OF DEPLOYMENT

4.1 AKRUTI Tech. Plus Document (ATPD)

BARC agrees to supply the technologies for Rural and semi-Urban deployment, in the form of documents, drawings, literature and advice as detailed in AKRUTI Tech Plus Document (ATPD), which will be handed over to Punyashlok Ahilyadevi Holkar Solapur University, Solapur at the time of signing of this Agreement. The composition of the 'ATPD' is given in Annexure-A. versity. Sale for routilize the HARC developed lechnologies no lained in

4.2 Technical Guidance and Consultancy save y in Sarah and same appropriate or hadrowntha

- 4.2.1 During the initial phase of technology deployment, from effective date of the agreement, BARC shall provide technical guidance and consultancy services at BARC by expert personnel as mutually agreed upon to Punyashlok Ahilyadevi Holkar Solapur University, Solapur for number of days as mentioned against each fechnology in the Annexure - A.
 - Punyashlok Ahilyadevi Holkar Solapur University, Solapur shall make necessary arrangements for residential accommodation, TA/DA etc. for the above deputed personnel during the consultancy. Further, all payments shall be made through a demand draft drawn in favour of "Accounts Officer, BARC" payable at Mumbai. Slow Abilyanevi Holkar Solopar University,
- 4.2.2 If Punyashlok Ahilyadevi Holkar Solapur University, Solapur requires the consultancy of the BARC personnel beyond the stipulated period of agreed man days, the same may be given by BARC at the nearest AKRUTI node upon mutual agreeable convenient time during the BARC expert's visit to that AKRUTL actino cay deployment, from effective date of the agreemen,
- Training spaces the vide test to a specificance and consultancy services at BARC by expert During the initial period of TWELVE months practical training through hands on experience at one of the existing AKRUTI nodes, shall be given to personnel deputed by Punyashlok Ahilyadevi Holkar Solapur University. Solapur as mutually agreed upon for number of days as deemed necessary by both parties. Punyashlok Ahilyadevi Holkar Solapur University, Solapur shall make necessary arrangements for residential accommodation, TA/DA etc. for the above deputed personnel during the practical training.

Demonstration hillsadevill 2 ten Bollup in Engine by Solapur requires the consultance of the

Technologies of AKRUTI Tech Plus shall be demonstrated preferably at one of the existing AKRUTI sites, saved AK M. T. Cliqupon runual as scale escendent time derian the BARC

builied of The Punyashlok Ahilyadevi Holkar Solapur University, Solapur Page 5 of 11 THE ALER II Is rider, is half be given to personnel deputed by Panya W

shilly rease. He kap Solanur sprist sity of larger as to findly agreed upon for measurer of day

- 6.6.2 Punyashlok Ahilyadevi Holkar Solapur University, Solapur shall indicate or cause to be indicated in all the technical documents, drawings and manuals including copies thereof furnished by BARC and in a manner approved by BARC that the design and the technology contained in the documents drawings or manuals are the property of BARC.
 - 6.7 Punyashlok Ahilyadevi Holkar Solapur University, Solapur shall obtain necessary local statutory clearances if required for any activity to be carried out under this Agreement.
 - 6.8 Punyashlok Ahilyadevi Holkar Solapur University, Solapur shall be bound to supply the product / part of product / services if requested from other AKRUTIs in India on chargeable
 - 6.9 In initial stage Punyashlok Ahilyadevi Holkar Solapur University, Solapur shall send the field data for the deployed technologies at regular intervals in the sample formats provided in ATPD and send to Head, AKRUTI Technology Section, BARC, Trombay, Mumbai - 400 085.
- 6.10 NISARGRUNA can be set up in urban sector, only after setting first operational plant in Rural/ semi-Urban sector.
- 6.11 Punyashlok Ahilyadevi Holkar Solapur University, Solapur shall support in spreading the BARC's concept of AKRUTI programme through villages on its own.
- 6.12 Punyashlok Ahilyadevi Holkar Solapur University, Solapur shall prepare project report on Applications of Advanced technologies in Rural and semi-urban sector in the areas of soil sensor, biomedical sensors, gas sensors, automated sanitizer. IoT based systems, AI & ML and Web application for rural area shall work in this area under the guidance and support by BARC, tage Punyashlok Ahid Acevi Hollow So 201 University, Solapar shall send the field
- 6.13 Punyashlok Ahilyadevi Holkar Solapur University, Solapur shall also be encouraged to deploy new technologies developed by BARC of Rural/ semi-Urban and societal importance on mutually agreed terms and conditions. server, city after setting first operational plant in Rura/
- 6.14 In future, if more technologies are required then Punyashlok Ahilyadevi Holkar Solapur University, Solapur shall pay technology license fee in advance along with the request.
- 6.15 The product/ system/ equipment manufactured by the Licensee, based on the know-how provided under AKRUTI Tech Pack for deployment, should be registered on the Government's e-market portal (GeM) {https://gem.gov.in} at the earliest and in any case within a period of I (one) year from the date of AKRUTI Tech Plus Agreement, under intimation to BARC. Registration with GeM ensures wider coverage of the market and also participation in the government's purchase programme.

7. CONFIDENTIALITY

- 7.1 Punyashlok Ahilyadevi Holkar Solapur University, Solapur has read and understood all terms & conditions for the AKRUTI Tech Plus and adheres to them during the period of Agreement.
- 7.2 Punyashlok Ahilyadevi Holkar Solapur University, Solapur shall take all necessary measures

Page 7 of 11

Punyashlok Ahilyadevi Holkar Solapur University, Solapur Fack for deployment, should be registered on the Go

[JeM] that has remark in at the earliest and in any case within a part

foliaper Marversity, Solapur shell also be encouraged to coping

Annexure-A

1. AKRUTI Tech Plus consists of following selected Technology related Documents (ATPD):

Sr.No.	Technology	Consultane Mandays
1.	Nanocomposite Ultra Filtration Membrane Device For Domestic Drinking Water Purification W.R.T. Arsenic, Iron and Microbial Contaminations	2
2.	Domestic Water Purifier	2
3.	A Rapid composting technology for decomposition of Dry Leaves, Kitchen waste and Temple waste	2
4.	Process For Long Lasting Ready- To- Eat (RTE) Intermediate Moisture (IM) Fruit Cubes	2
5.	Vibro Thermal Disinfector	2
6.	Solar Dryer 25 Kg	2
7.	Foldable Solar Dryer	11 (x 1 12) 1.
	Pack of following two Tissue Culture Technologies	2
8.	turmeric (Curcuma longa L.) and (ii) Banana Tissue Culture	Consultancy Ma 2 lays
9.	Micro fine Neem Biopesticide	2
0.	Development of Instant Fish Soup Powder	
1	Nisargruna Biogas Plant based on biodegradable waste-ITPD	2
2.	A Post-harvest technology for development of Intermediate Moisture (IM)	2
	Summer of composition to the learning as the late that the learning as the late that the	2-
3.	Delicious & Preservative Free, Shelf Stable Natural Jamun Product	2
4	Soil Organic Carbon Detection & Testing Kit	2
5.	Mass Multiplication Medium of biofungicide Trichoderma spp. Marsture (IM)	2
	Tur la hei	
(High Tech Consultancy Service on trial basis for villages/semi-urban areas on successfully deploying the taken technologies in the Rural/ semi-Urban secder can request for following free consultancy suitable to its region on trial basis of Radiation Processing of Agri produce (Sample Quantities) BARC New Seeds (Sample)	tor, the ATP
	Applications of Isotope Techniques in Hydrological Investigations (Prelimina Exposure)	ry 2
	Di Cod Citta Naim Biopus Cira	2
	Cover and Control of School Paveder	2
	Niscon (1) (1) to Use the diff biogenial does nated IPD	2
	of Figure 1 to the Figure 1 to the Figure 1 to the first of the first of the Figure 1 to the F	2
	Deticlous (Liberarydive Fice, Foold Stable) table (Damen Product	2
	Spil Charge Carpon Detection & Tearing (in	- +
	Mass of Hop Catlon Mechan p. Lioturiji. se fine rodovnih spp	

Figure Fail Computation Service on this best for Alages/semi-urban areas only be successfully deploying the example of the Rural semi-Urban sector, the ATP of the sector of the fellowing for product semi-ulated as region of trial basis once following for product Semi-ulated as Processing Co. Appropriate Semi-ulated Semi-ulated

Page 10 of 11

Punyashlok Ahilyadevi Holkar Solapur University.

pus

Annexure-B

TERMS AND CONDITIONS

- Designed strictly for technology deployment exclusively in Rural/ semi-Urban sector with Rural/ semi-Urban manpower.
- Place of activity must be in Rural/ semi-Urban sector providing opportunities of jobs and entrepreneurship to Locals in Rural/ semi-Urban areas.
- Working place/ facility must be set up in Rural/ semi-Urban sector except NISARGRUNA with precondition.
- NISARGRUNA can be set up in urban sector also only after setting at least one operational plant in the Rural/ semi-Urban sector.
- Products made in AKRUTI Place can be marketed in urban areas in addition to villages/ semi-Urban areas with due acknowledgement as stated in cl. 6.6.
- The individual entrepreneur/ industries/ MSMEs/ FPOs/ CBOs/ companies/ education institutes/ organizations taking AKRUTI Tech Plus can also deploy technologies in other villages through suitable mechanism or NGOs operating in those villages with above conditions in the same format as "AKRUTI-KRUTIK-FORCE".
- FIRE RUNA can be set up in ur sun sector also only after serting at teast one operational state in the Rural/ser (-U-) in sector.
- Place on the market of in the RUT Place on the marketed in urban areas if addition to villages/
 - The individual entrement of industries MSI/Es/ FPCs/ CBOs/ companies/ education in this is a companies and AKRUTE Tech Plus can also deploy technologies in other all larges through sample rechards not MCOs operating in mose villages with above on this same form that MKRETITIKE THE FORCE.

Page 11 of 11 Solapur Punyashlok Ahilyadevi Holkar Solapur University,

1