Ham Radio Workshops Conducted by Vigyan Prasar (State-wise List)

National media coverage of different countrywide ham radio outreaching activities of Vigyan Prasar can be referred to

at:http://www.qsl.net/vu2msy//documentation/Ham_Radio_in_Vigyan_Prasar_In_National_Media/

Name of State	No. of our	treaching/workshop/training activities conducted	
	7		
		(3 State Level Training Programme)	
	National I	Media Coverage of Vigyan Prasar's Ham Radio Activity:	
	(i)	http://www.qsl.net/vu2msy//documentation/Ham_Radio_in_Vigyan_	
	(1)	Prasar_In_National_Media/03HamRadioWorkshop_at_Jangal_Manga	
		1_near_to_Dehradun.jpg [State Level Training Programme News]	
	(ii)	http://www.qsl.net/vu2msy//documentation/Ham_Radio_in_Vigyan_	
	(11)	Prasar In National Media/05EMRI UCOST Vigyan Prasar ham r	
		adio_workshop_AMAR_UJALA_News.jpg	
Uttarakhand	(iii)	http://www.qsl.net/vu2msy//documentation/Ham_Radio_in_Vigyan_	
	(111)	Prasar In National Media/02Ham Radio Workshop Doon Univers	
		ity HindustanTimes News.jpg [State Level Training Programme	
		News]	
	(iv)	http://www.qsl.net/vu2msy//documentation/Ham_Radio_in_Vigyan_	
	\ /	Prasar_In_National_Media/04UCOSTVPDehradunham_Amar_Ujala.	
		ipg	
	(v)	http://www.qsl.net/vu2msy//documentation/Ham_Radio_in_Vigyan_	
		Prasar In National Media/Dainik Jagaran Vigyan Prasar HamRadi	
		o_Workshop_News.jpg	
	(vi)	http://www.qsl.net/vu2msy//documentation/Ham_Radio_in_Vigyan_	
		Prasar_In_National_Media/EMRI_UCOST_VP_HT_news.jpg	
	(vii)	http://www.qsl.net/vu2msy//documentation/Ham_Radio_in_Vigyan_	
		Prasar In National Media/DST NewDelhi HamRadio Workshop	
		Doon University THE PIONEER News.jpg	
	(viii)	http://www.qsl.net/vu2msy//documentation/Ham_Radio_in_Vigyan_	
		Prasar_In_National_Media/EMRI_Vigyan_Prasar_ham_radio_worsks	
		hop_SHAH_TIMES_news.jpg	
	(ix)	http://www.qsl.net/vu2msy//documentation/Ham Radio in Vigyan	
		Prasar In National Media/Ham Radio In VigyanPrasar In Doon	
	()	University.jpg	
	(x)	http://www.qsl.net/vu2msy//documentation/Ham Radio in Vigyan	
		Prasar_In_National_Media/Uttarakhand_ham_radio_training_news_D	
		ream2047VigyanPrasar_Newsletter.jpg [State Level Training	
	(:)	Programme News]	
	(xi)	Shri Sandeep Baruah, Scientist-E, Vigyan Prasar attended as a	
		Guest Speaker at Indian Institute of Technology Roorkee on the occasion of Cognizance 2009- annual technical festival of IIT	
		Roorkee organized by students of electronics and computer	
		department. A portion of his programme on Morse Code: Digital	
		mode for interplanetary communication? Is at YOUTUBE:	
		https://youtu.be/zXT08p80Sj0	
		ntips.// youtu.oc/2/x100poosjo	

At Bhimtal, Uttarakhand on February 18 & 19, 2005 Ham Radio (xii) Workshop during Workshop on Science & Technology for Development of Uttaranchal jointly with Jan Sikshan Santhan, Bhimtal http://www.qsl.net/vu2msy/bhimtal/index.html Training Session on Ham Radio Digital Communication technologies (xiii) was conducted by Shri Sandeep Baruah, Scientist-E from Vigyan Prasar as a Guest Lecturer at Lalbahadur Shastri National Academy of Administration (LBSNAA), Centre for Disaster Management (CDM), Mussoorie for the IAS probationary officers. Shri Baruah received a letter of appreciation from Shri Rajesh Arya, IPS. Deputy Director (Sr.), CDM. Ref: http://www.qsl.net/vu2msy//documentation/Ham_Radio_in_Vigyan_ Prasar_In_National_Media/LBSNAA_CDM_Appreciation_Letter_fro mSHri Rajesh Arya IPS to Sandeep Baruah.jpg 4 Himachal 1. Bilaspur Pradesh 2. Shimla 3. NIT Hamirpur [https://hamnith.wordpress.com/workshop-onpractical-implementation-of-ham-radio/] In continuation to the ham radio workshop conducted at NIT Hamirpur, Himachal Pradesh last year to prepare the students to appear for the amateur radio licencing examination at International Monitoring Station, Ghitorni, New Delhi, a hands-on workshop was again conducted on 7th and 8th April, 2017 at NIT Hamirpur. Students were practically demonstrated ham radio antenna installation procedures [Social Media reference of the "Video Documentation" available at public link: https://www.facebook.com/hashtag/vu2muenithamirpur?source=embed]. During this worsksop Shri Sandeep Baruah, Scientist-E, Vigyan Prasar was also accompanied and assisted by Shri Atanu Dasgupta, VU2ATN -Retired General Manager (Telecom, Powergrid) who as an accomplished ham with vast technical experience. Students assembled a very low power 7 MHz ham radio transceiver during the workshop. A "Ham Radio Society" was formed by the NIT Hamirpur students under our guidance. Web Ref: https://hamnith.wordpress.com/ 1 **State Level Training Programme** From May 8 to 16, 2016 A State Level Ham Radio Training Programme wasconducted by Vigyan Prasar for the tribal resource persons at Sikkim Gangtok, Sikkim for 50 participants from 4 districts of Sikkim conducted at Sikkim State S&T Council [Sikkim Science Centre]. The participants are now awaiting ham radio licence from the Ministry of Communications as passed the Amateur Stationh Operator's Certificate Exam conducted by Wireless Monitoring Station, Siliguri on May 25, 2017 and the results were declared on 24th July.

Media Coverage: [a] http://www.gsl.net/vu2msy/documentation/Ham Radio in Vigyan Prasa r In National Media/Sikkim Express State Level Ham Radio Trainin g_New_10th_May_2016.jpg [https://tinyurl.com/y7696dnf] [b] http://www.gsl.net/vu2msy/documentation/Ham Radio in Vigyan Prasa r_In_National_Media/SikkimExprerss_Ham_Radio_Training_News15Ma y2016.jpg [https://tinyurl.com/hts4pyv] [c] http://www.qsl.net/vu2msy/documentation/03HamRadioNewsSikkimTrai ning2016forFB.jpg [https://tinyurl.com/he5xbz6] Vigyan Prasar's ham radio expertise is sought by technical institutes in establishing satellite ground stations for receiving and tracking of the Low Earth Orbit [LEO] ham satellites. Necessary guidance was provided to Satellite Ground-Station Team, Atharva College Of Engineering, University of Mumbai. They have now successfully installed the system which was acknowledged by AMSAT-North America. Atharva Satellite Ground-Station was inaugurated at The Atharva College of Engineering, University of Mumbai in India on March 15, 2012 where Shri Sandeep Baruah, Scientist-E from Vigyan Prasar was Guest Speaker. He conducted lecture and demonstration attended by the student team at Atharva College of Engineering along with the Indian Institute of Technology, Bombay for the communication, telemetry and data acquisition of their Pratham student satellite project. During the formal Maharashtra inauguration on March 15, 2012 Students at Atharva Satellite Ground-Station successfully communicated to Delhi using the Indian ham satellite VO-52 covering a distance of 850 Miles from Mumbai Shri Baruah was acknowledged by the students for continuously guiding them inLinkdin/email messages as well as their website: http://www.atharvacoe.ac.in/ground-station/ [https://tinyurl.com/yd4vs76m] To guide the students to receive Morse Code Telemetry Beacon from **COEP built** (College of Engineering Pune) ham radio satellite **SWAYAM**, a demonstration video is uploaded by Shri Baruah, while he was receiving the signal from the roof of his residence in the night. He is guiding the students in different technical aspects. The video is at: http://www.qsl.net/vu2msy/satellite/SWAYAM28June2016/SWAYAM_ CW 28June2016Pass/SWAYAM CW 28June2016Pass player.html

Rajasthan	 BITS Pilani [A Youtube documentation of a portion of the workshop can be viewed at: https://youtu.be/zXT08p80Sj0] Poornima College of Engineering, Jaipur Demonstration of Ham Radio Digital Communication at the National Festival of the Ham Radio Operators: On 6th of November, 2016 a Technical Session was conducted by Shri Sandeep Baruah, Scientist-E at the 25th National Conference of the ham radio operators held at Mount Abu, Rajasthan which was live streamed on Internet in YOUTUBE channel at the following link: https://youtu.be/7VacLQeFNRM Shri Baruah received a hearty felicitation from the organizers for his 25 years of voluntary committed and dedicated service promoting ham radio in India. He was felicitated by the Chairman of the Conference Dr. D. R. Kaarthikeyan, IPS. 400 hams from India and abroad attended the programme.
	1 5
Haryana	 Shri Sandeep Baruah, Scientist-E is a Guest Faculty of Haryana Institute of Public Administration (HIPA). During all the programmes related to Disaster Mitigation, Shri Baruah is training the Civil Defence Officials and other governmental employees. His name is included as an communication expert in the Directory of Resource Persons in Disaster Management brought out by HIPA [http://nidm.gov.in/PDF/Pubs/DM_Dir_2014.pdf]
	 Shri Baruah, Scientist-E, Vigyan Prasar attended as a Resource Person at Hisar Haryana Agriculture University National Workshop of NCC Cadets. Related National Media News of 1 Haryana R&V NCC Sqn, Hisar participating in the workshop was published in Dainik Bhaskar : http://www.qsl.net/vu2msy//documentation/Ham_Radio_in_Vigyan_Prasar_In_National_Media/06Hisar_Agricultural_University_NCC_Cadets_National_Workshop.jpg Blue Bell Public School, Gurgaon Colonel's National Academy Public School, Gurgaon
Chandigarh/ Punjab	 Ham Radio Workshop at State S&T Council Punjab A Technology Demostration Programme was organized at Snow & Avalanche Study Estt. (Research and Development Center), Ministry of Defence, DRDO, Chandigarh on Semptember 16, 2010 where the integration of Automatic Weather Station to ham radio transceivers for real time telemetry transmission of weather parameters via a simulated network of high altitude ham radio digital repeaters (Digipeaters) was

	demonstrated and a technical session was conducted. Ref:
	http://www.qsl.net/vu2msy//documentation/Ham_Radio_in_Vigyan_
	Prasar In National Media/SandeepBaruahVU2MUE at Snow and
	Avalanche Study Establishment DRDO Chandigarh.jpg
	100
	More than 100 outreaching programmes were
	conducted in NCT [New Delhi, Ghaziabad, Noida].
National	Some of these are already listed is our previous reply.
Capital	
Territory of	1. Outreaching activities are regularly conducted in the schools at
Delhi (NCT)	different location in Delhi
	2. Some of the Programmes conducted in NCT are documented at
	YOUTUBE:
	(i) https://youtu.be/AL3yAeTa2rM
	(ii) https://youtu.be/pybf0jhCEwI
	(iii) https://youtu.be/b5nteQPVvmo
	(iv) https://youtu.be/N75rU7u7vxY
	(v) https://youtu.be/oJU0aUcDZPU
	(vi) https://youtu.be/Zs0kIGbXUvU
	(vii) https://youtu.be/JoURljAR-RY
	(viii) https://youtu.be/BKEPXIIfbUk
	(ix) https://youtu.be/2zLqKCAey50
	International Disaster Management Exhibition 2008 Ham
	Radio Demonstration
	(x) https://youtu.be/zeQkDT3ca1I
	(xi) https://youtu.be/p5nWLDwrL7s
	(xii) <u>https://youtu.be/sp4HciC0JuI</u>
	3. Ham Radio training programmes are regularly conducted by Shri
	Sandeep Baruah, Scientist-e, Vigyan Prasar at NIDM (National
	Institute of Disaster Management)
	4. NDTV interviewed Shri Sandeep Baruah, Scientist-E, Vigyan Prasar
	on 22 July 2014 giving extensive coverage of his conversation referring
	to Vigyan Prasar's role in promoting ham radio.
	http://gadgets.ndtv.com/telecom/features/the-first-social-network-
	chewing-the-rag-with-indias-ham-radio-operators-562745
	[https://tinyurl.com/gwmxqqd]
	5. NDTV again interviewed Shri Baruah during the Uttarakhand Disaster
	Communication related to role of ham radio in disaster management;
	the News is in Youtube: https://youtu.be/10bdwqohRnk Screenshot
	grab of the news:
	(1) http://www.qsl.net/vu2msy/documentation/Ham_Radio_in_Vigyan
	Prasar In National Media/HamRadio NDTV News VigyanPr
	asar_Reference.jpg
	(2) http://www.qsl.net/vu2msy/documentation/Ham_Radio_in_Vigya
	n_Prasar_In_National_Media/HamRadioPromotionalActivitiy_of
	Vigyan Prasar Featured on NDTV.jpg
	6. The <i>Times of India Bangalore</i> [Bangalore Times] also interviewed
	Shri Baruah and quoted him related to role of ham radio in disaster
L	Sim Bardan and quoted in in teraced to fole of fram factor in disaster

management:

http://www.qsl.net/vu2msy/documentation/Ham Radio in Vigyan P rasar In National Media/Bangalore Times April 27 2015 News on Ham radio in Emergency Communication.jpg

7. In another article that came out in Seven Sisters Post Shri Baruah was quoted for his role in promoting ham radio in India:

http://www.qsl.net/vu2msy/documentation/Ham Radio in Vigyan Prasa r In National Media/01Seven Sisters Post February 03 2012 Article by Reema Gowalla .jpg

8. Emergency communication Mock drill exercises were coordinated by Vigyan Prasar at the behest of NDMA [previously NDM Division]. An emergency communication mock drill exercise conducted by Vigyan Prasar at the behest of Ministry of Home Affairs was able to draw international attention. The activity was highlighted/featured in America's most popular Amateur Radio Magazine "CQ" in its October 2004 issue citing our role and its importance specifically mentioning Shri Baruah's coordination. The PDF copy of the article can be accessed at

http://www.qsl.net/vu2msy/documentation/CQAmericaCitingHamRadioInVigyanPrasar.pdf
[https://tinyurl.com/ya6tgwvj]

9. Shri Sandeep Baruah, Scientist-E, Vigyan Prasar attended as the 'National Expert' at the IEEE International Seminar on Ham Radio titled "INTERNATIONAL WORKSHOP ON AMATEUR **COMMUNICATION** & **COMPUTING** EDUCATIONAL ENVIRONMENT" 14th & 15th SEPTEMBER 2016 at ABES Engineering College in Ghaziabad; the IEEE communication newsletter cited him acknowledging his skill; The "International Expert" commented in this newsletter: QUOTE "The lecture attracted many female students. As I noticed, Indian schooling is not worried about any decrease of interest for technical education for young women. The workshop was combined with a practical session performed by a skilled radio amateur, Sandeep Baruah, VU2MUE, scientist-E with Vigyan Prasar, an autonomous body under the Department of Science & Technology, Government of India." **UNOUOTed** http://gcn.comsoc.org/amateur-radio-lecturesfrom poland-and-india [https://tinyurl.com/ych53tzr]

ABES Engineering College News citing me and Vigyan Prasar: http://gn.dronacharya.info/Amateur_Radio_jan_2016.asp#ad-image-0 [https://tinyurl.com/ydg2kmoe]

10. THE TRIBUNE 2004 Tsunami Disaster Relief Ham Radio Operation News. They specifically cited the contribution of Sandeep Baruah during the Tsunami Emergency Communication

http://www.tribuneindia.com/2004/20041229/delhi.htm

[https://tinyurl.com/ya9wwewe]

The scanned printed version of the news is at:

http://www.qsl.net/vu2msy/documentation/Tsunami_operation_news. gif [

https://tinyurl.com/yb7o5wam | This was highlighted and The CBSE Class X text book can be downloaded from: http://cbse.nic.in/DM%20ENGLISH.pdf [Page No 36] where Shri Baruah's contribution is specifically mentioned.

- 11. NSIT New Delhi Ham Radio Workshop http://www.qsl.net/vu2msy/HamRadioDigitalFusionTechnologyDemo ntrationatNetajiSubhasInstituteofTechnology.html [https://tinyurl.com/j4edrnf]
- 12. On April 12, 2016, Shri Sandeep Baruah, Scientist-E attended as a Guest Speaker and expert in ham radio at Russian Embassy Cultural Centre on the occasion of Yuri Gagarin [who was a ham] Day. Demonstration of Digital communication was given and there was a video show in which the following video was played to make the participant's aware about NASA's ham radio satellite ARISSat-1 programme which was named KEDAR [radio call-sign of Late Yuri Gagarin 1 to commemorate the space flight of Yuri Gagarin. In this video it was demonstrated by him how amateur radio experimenters receive images transmitted from space. The video link: https://youtu.be/HTbnHZWDHUI

The following news highlights my presentation:

https://in.rbth.com/arts/culture/2016/04/14/rcsc-lauds-gagarinspioneering-flight-and-achievements_584755

QUOTE: "Among the speakers were N. Ratnasree, Director, Nehru Planetarium, Biman Basu, retired scientist, Council for Scientific and Industrial Research, and Sandeep Baruah, Scientist "E", Vigyan Prasar, Department of Science & Technology. A gathering comprising science enthusiasts, students and social activists, attended the function...Describing the wider possibilities and vast potential of scanning the world utilising the service of amateur radio, Baruah pinpointed the access and exposure that a common man could achieve in scientific observation by establishing contact with cosmonauts and astronauts." UNQUOTE [

https://tinyurl.com/ycmhmg2k]

- 13. On 10th July, 2017, Army officials of the 21 Signal Group visited Vigyan Prasar's ham radio facility deputed by Major Abhishek Dwivedi for his officials to be acquainted with amateur radio communication system and the possibility of incorporating ham radio in the Armed forces as a second line of Communication.
- 14. A Ham Radio Kit Building Workshop and Ham Radio Demonstration Programme was organized at Apeejay School Saket on 10th August, 2017. During the kit building workshop the following instructional material was given to the kids: http://www.gsl.net/vu2msy/homebrew/FMToyTransmitterAssemblyIn structionsEduSAT2017.pdf [https://tinyurl.com/yb6rqy35]
- **15.** Shri Sandeep Baruah, Scientist-E, Vigyan Prasar participated as an expert at the National Programme on "Communications in Emergencies and Disaster Situations organized by National

Institute of Disaster Management NIDM) jointly with Directorate General of Doordarshan on January 18, 2017. Shri Baruah practically demonstrated different ham radio technologies relevant to emergency communication for which a temporary ham radio cross-band repeater system was installed at NIDM as a relay station to demonstrate accessing of Delhi Ham Radio Repeater Station VU2DLR located at Vigyan Prasar and local VHF Line-of-Sight communication was established with another ham radio station at Gurgaon operated by retired General Manager of Powergrid Shri Atanu Dasgupta, VU2ATN, who addressed the participants as a part of the demo. Ankur Puranik, VU2AXN, the Chief Commanding Officer (Engineering & Wireless) of Disaster Amateur Radio Emergency Services (DARES), Mumbai Civil **Defence NIDM** at live streamed a portion of Shri Baruah's presentation/demonstration which be viewed can http://tinyurl.com/hvydvqw

- **16.** A Session on Ham Radio was conducted by Shri Sandeep Baruah, Scientist-E at Haryana Institute of Public Administration as Guest Faculty on **9th May, 2017** where 50 Civil Defence Officials were introduced to ham radio and preliminary training provided.
- 17. An activity book on "Radio Communication" for hands-on kit building workshop was brought out by Vigyan Prasar authored by Shri Sandeep Baruah, Scientist-E, Vigyan Prasar. During the EduSAT Summer Science Festival 2017. A radio transmitter kit building workshop was conducted at Vigyan Prasar from June 14 to June 21, 2017, where students were trained hands-on to assemble a toy radio transmitter. Students were provided with the electronic component and other resources along with the guidebook on radio communication and the following instructional material:

 http://www.qsl.net/vu2msy/homebrew/FMToyTransmitterAssemblyInstructionsEduSAT2017.pdf

 [https://tinyurl.com/yb6rqy35]

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Uttar Pradesh

- 1. IIT Kanpur (3 workshops on ham radio was conducted by Shri Sandeep Baruah, Scientist-E, Vigyan Prasar at IIT Kanpur as Guest Lecturer)
 A detailed report for one of the programmes at:
 http://www.qsl.net/vu2msy//documentation/Ham_Radio_in_Vigyan_Prasar_In_National_Media/IIT_Kanpur_Techkriti_2010Annual_Tech_nical_Festival.pdf
 - National Media Coverage of the IIT Ham Radio workshop: http://www.qsl.net/vu2msy/documentation/Ham_Radio in Vigyan_Prasar_In_National_Media/04HindustanTimes_IIT_Kanpur_Ham_Report.jpg
- 2. Gwalior Glory Public School, Gwalior
- 3. St. Merry Public School, Gwalior
- 4. Lucknow (During the Vigyan Rail Mobile Science Exhibition in 2004)
- 5. During the National Ham Radio Conference (popular as Hamfest India) 2013 held at Gwalior, Shri Sandeep Baruah, Scientist-E, Vigyan Prasar

	deliberated a demonstration and presentation on ham radio digital communication to an audience of nearly 150 participants from across the country and neighbouring countries like Nepal, Bangladesh etc.
Andhra Pradesh/Tela ngana	 Hyderabad (A Ham Radio Workshop for Sree Devi Engineering College students was conducted by Shri Sandeep Baruah, Scientist-E, Vigyan Prasar at National Institute of Amateur Radio – NIAR. PDF Newsletter reference: http://www.niar.org/images/ham-news/pdf/2013MarApr.pdf <a documentation="" ham="" href="http://www.qsl.net/vu2msy/documentation/Ham Radio in Vigyan P rasar In National Media/Hyderabad Programme for Sree Devi En gg College.jpg A workshop on Ham Radio Digital Communication was organized at Vignan Techno SPAES School, Huzur Nagar, Nalgonda (erstwgile Andhra Pradesh now Telangana) on 27th April, 2013. Related News link: http://www.qsl.net/vu2msy/documentation/Ham Radio in Vigyan P rasar In National Media/SPAES_School_Nalgonda_Andhra_Pradesh_Telengana.jpg
Tamii Nadu	During graVITas 2014 - An International Knowlegde Carnival at Vellore Institute of Technology University, Vellore [VIT University, Vellor] A ham radio technology programme was organized at VIT University, Vellor on 27th September, 2014 for the students of Electronics & Communications Engineering Department of Vellore Institute of Technology University, Vellore on the occasion of their Technical Festival graVITas 2014. Vigyan Prasar official Shri Sandeep Baruah attended and organized the programme as a Guest Speaker invited under the "Uncommon Indians" category]. APRS -A US Naval Academy ham radio technology was demonstrated to the students. It was demostrated how a map on a laptop can be changed by pressing a radio button remotely which cannot be done by a smartphone. Morse Code technology was also demonstrated as an alternative to digital modes of communication. Social Media reference: https://www.facebook.com/media/set/?set=a.10202898428116810.10737 41880.1085772931&type=1&l=14204a88ef [https://tinyurl.com/y8ybk5oa] VIT University Vellore News in United Kingdom ham radio portal: http://www.southgatearc.org/news/2014/september/ham_radio_at_gravitas_2014.htm#.Vby5WvlhQZw [https://tinyurl.com/y7sf2w61]
Assam	8 1. Ham Radio Emergency Communication System was demonstrated by Shri Sandeep Baruah, Scientist, Vigyan Prasar at Guwahati Medical College during a workshop on ham radio:

	http://www.qsl.net/vu2msy/documentation/Ham_Radio_in_Vigyan_P
	rasar In National Media/The Assam Tribune HamRadio News.jpg
	2. Two workshops were conducted by Shri Baruah at IIT Guwahati .
	Related News: http://www.qsl.net/vu2msy/IITWorkshop.htm
	3. Girijanda Engineering College
	4. Assam Police Radio Organization HQ (2)
	5. Royal Global Engineering College/School
West Bengal	2
	A Ham Radio workshop was conducted at Birla Industrial and
	Technological Meuseum Kolkata on April 18, 2015 where 150
	students from different schools participated. Study materials were
	provided to the students.
	2. Shri Sandeep Baruah, Scientist-E from Vigyan Prasar was invited as a
	"Guest of Honour" to the East India Ham Conference 2017 held
	at Kolkata, Mandarmoni Beach, West Bengal on 28 January,
	2017 -organized jointly by Amateur Radio Convention and
	Conference Samity (ARCCS) Kolkata and by Society Of Radio
	Amateurs (SORA), Patna two ham radio promoting societies. A
	technical session was conducted by Shri Baruah where 100 hams
	from different states from East India participated.
	Apart from outreaching programmes conducted across the country
International	Vigyan Prasar is also Internationally visible for its contribution to
Visibility/Pro	promoting ham radio (Amateur Radio)
motional	
activity at	1. A Research Paper by NSA's [National Security Agency, USA]
International	Pacific Northwest National Laboratory titled 'Radio noise: Global
Level	economic and political impact" cited research work of Shri Sandeep
	Baruah, Scientist-E, Vigyan Prasar in their paper. His paper reference
	cited by them can be found at page no. 28, ref no. [32] Their PDF
	newsletter titled "The Next Wave" [20th Anniversary Issue Vol 20
	no. 1 2013] citing
	me can be accessed at:
	https://www.nsa.gov/resources/everyone/digital-media-
	center/publications/the-next-wave/assets/files/TNW-20-1.pdf
	Ref to my work at Page No. 28]
	[https://tinyurl.com/yb3hxqtp]
	2. Shri Baruah's Research Work in Digital Communication was cited
	in an international paper
	http://www.researchgate.net/publication/268100793_A_Low_Energy
	_APRS-IS_Client-
	Server Infrastructure Implementation using Raspberry Pi
	[https://tinyurl.com/zuds57u] by the students of Faculty of Electrical
	Engineering, University of Sarajevo and Faculty of Engineering and
	Information Technologies, International Burch University Sarajevo,
	Bosnia and Herzegovina in their Research Paper "A Low Energy
	APRS-IS Client-Server Infrastructure Implementation using
	Raspberry Pi". The ''Rationale'' of their project is said to
	- •
	be from his research work cited in Page No. 2 of the paper for the

- **22nd Telecommunications Forum (TELFOR) Conference at Belgrade, Serbia.**
- 3. A full Length Research Paper on Ham Radio presented by Shri Sandeep Baruah, Scientist-E, Vigyan Prasar is published in the final compendium brought out by TIFAC, DST. The paper was accepted and presented at the 6th Annual Conference of the International Society for Integrated Disaster Risk Management IDRiM -TIFAC 2015 on "Disaster Risk Reduction: Challenges and Opportunities for Sustainable Growth" held from 28-30 October 2015, New Delhi [
 http://www.tifac.org.in/index.php?option=com_content&view=article &id=963:6th-annual-conference-of-the-international-society-for-integrated-disaster-risk-management&catid=49:latest-news&Itemid=17

https://tinyurl.com/y8buuren

The "Research Paper" Entitled "Radio Based Approach for Disaster Risk Reduction and Management Using Automatic Packet Reporting System and Ham Radio (Amateur Radio) Digital Communication Technologies" was accepted by a panel of International Experts of IDRiM (International Society for Integrated Disaster Risk Management) and the abstract was earlier published in their compendium

http://idrimjournal.com/ The semianr was sponsored by Ministry of Science & Technology, Govt. of India, ISRO, United Nations, Ministry of External Affairs, Oxfam and organized by TIFAC (Technology Information, Forecasting and Assessment Council, Department of Science and Technology, Govt. of India http://www.tifac.org.in/) The paper was presented along with technical demonstration. A copy of the paper can be accessed at: http://www.academia.edu/27256984/A PRACTICAL RADIO AND INTERNET BASED APPROACH FOR DISASTER RISK RED UCTION AND MANAGEMENT THROUGH GEOSPATIAL IN FORMATION STUDIES USING AUTOMATIC PACKET REPORTING SYSTEM APRS

[https://tinyurl.com/y8qzeeuy]

Nearly 250 ham radio outreaching activities were conducted by Vigyan Prasar during the last 18 year.