## Frequency of Utilization of ICT Tools by Krishi Vigyan Kendra Scientists of Rajasthan

**ABSTRACT:** Information communication technology (ICT) is a multidimensional term for information technology (IT) that addresses the role of integrated communication and the integration of telecommunications (telephone lines and wireless signals) and computers as well as essential enterprise software, middleware, storage, communication which enable users to access, store, transmit and manipulate information. ICT's is emerging as an important tool for the progress of society. The new technology has significantly improved lifestyle and efficiency levels in all sectors of the economy. This enables the utility of information & communication technology to overcome physical distances and time gaps in communication. Rapid improvements in information technology have increased their cost and space requirements, speed and storage capacity in a short span of time with traditional communication materials such as posters, charts, leaflets, folders, bulletins, audio tapes, transparency, photographs, prepared slides, videotape etc. In simple terms, ICT is a set of techniques evolved to manage information and move it from one place to another. It has been observed that in this traditional system used to take a lot of time to convey the information given to the farmers and the information was not received correctly. The rapid development of information technology has given a new look to communication systems. Now connecting two computers across the country has become an easy task. Separate ICT projects have been initiated by government, NGO's and private companies. As a result, villages in many parts of the country have been connected through a wired network to eliminate the distance between rural and urban people. Krishi Vigyan Kendra are established by Indian Council Of Agricultural Research (ICAR) all over the country as an institutional innovation for application of agricultural science and technology on the farmer's field with the help of multidisciplinary team i.e. Senior Scientists and Subject Matter Specialists. Who give skill or knowledge oriented training to farmers in multidisciplinary areas like Horticulture, Animal Husbandry and Fisheries, Home Science Agriculture Extension, Agronomy, Plant Protection Entomology/Pathology and Agriculture Engineer.

**KEYWORDS:** Information Communication Technology (ICT), Frequency, Krishi Vigyan Kendra (KVK) NGO's, (Non Government Organization) Utilization

**INTRODUCTION:** Information communication technology is the cornerstone of agricultural development at this time. Information communication technology promotes the productivity, efficiency and stability of the agricultural sector. This new information system can add more population and more villagers in developing countries. In order to provide nutrition and salary to a large section, communication is a core issue in developing societies. Communication policies, techniques and strategies need to be revolutionized so that instead of making it privileged by rich people it can be made a fundamental right of poor people. Communication science comes as a profession, particularly in natural and agricultural communication. It seeks to transform knowledge and skills about advanced agricultural technology with the aim of changing the existing agricultural practices of farmers to increase

production in rural areas .KVK's under ICAR, SAU, and NGO is one of the premier institutes dedicated to the upliftment of rural agricultural research. As an institutional innovation, KVK has been set up by ICAR across the country for application of agro-science and technology, with the help of a multi-disciplinary team i.e. senior scientists and subject matter specialists in agriculture sector. Those who provide skills and knowledge training to farmers in areas like Horticulture, Animal Husbandry and Fisheries, Home Science, Agricultural Extension, Agricultural Science, Plant Protection Entomology / Pathology and Agricultural Engineer. The responsibility of KVK's scientists is to transfer recent technologies / information required for their work, including crop production, input supply, pest and disease control, crop harvesting etc so that farmers can get agricultural information quickly and effectively.

**RESEARCH METHODOLOGY:** The study was conducted in Rajasthan state of India. Rajasthan, a vast state comprises of thirty three districts and all were selected for the study. There are 44 Krishi Vigyan Kendra in Rajasthan state also (33 districts) has variety of thus geographical characteristics and all KVK engaged in various extension activities and all were considered for this study. The population of study included all Senior Scientists and Head and Subject Matter Specialists of Krishi Vigyan Kendra of all State Agricultural Universities (SAU'S) Non Government Organization (NGO'S) and Indian Council of Agricultural Research (ICAR) of the state. All the staff members including of SMS, Associate professor and Senior scientists and head. The total sample comprised of 210 Krishi Vigyan Kendra Scientists. The main focus of the present study is to find out the current state of usage behaviour of KVK scientists regarding selected information communication technology tools.

**RESULTS AND DISCUSSION-**The study reveals that the frequency of utilization of ICT tools by scientists for the farmers the tool which is utilized maximum by the KVK scientist is Smart phone and Internet with mean score 5.00 and Rank-I overall. The website which is utilized maximum by the KVK scientist is www.kvk.icar.gov.in and www.atarijodhpur.in with mean score 4.89 and Rank-IV and V respectively. The Message App tool which is utilized maximum by the KVK scientist is WhatsApp with mean score 5.00 and Rank-I in all the tools. The Agricultural App which is utilized maximum by the KVK scientist is YouTube with mean score 4.40 and Rank-III in all the tools.

Table 1: Frequency of utilization of ICT tools by Krishi Vigyan Kendra scientists

Category	Frequency of ICT tools													
	Every day		2-3 times week		Once a week		Fortnightly		Rarely		Never		Mean	Rank
Common ICT Tools	F	%	F	%	F	%	F	%	F	%	F	%	Score	
Computer	208	99.05	0	0.00	1	0.48	1	0.48	0	0.00	0	0.00	4.98	II
Laptop	151	71.90	43	20.48	10	4.76	1	0.48	5	2.38	0	0.00	4.59	XI
Smart Phone	210	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	5.00	I
Telephone	118	56.19	27	12.85	4	1.90	10	4.76	11	5.24	40	19.04	3.52	XVII
Internet	210	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	5.00	I
Agricultural Official Websites														
www.kvk.icar.gov. In	188	89.52	20	9.52	2	0.95	0	0.00	0	0.00	0	0.00	4.89	IV

www.magngorian   159   557   544   2055   7   233   0   0,00   0   0,00	www.atarijodhpur.in	188	89.52	15	7.14	7	3.33	0	0.00	0	0.00	0	0.00	4.86	V
wavemange govin   1   0.48   24   11.43   89   42.38   79   37.62   3   1.42   14   6.67   2.51   XXXIII wave angle govin   3   1.43   28   1.43   28   3.38   4   1.90   25   1.00   2.44   XXXIII wave angle govin   14   6.67   15   7.14   10   3.30   6.38   3.38   4   1.90   2.5   1.00   2.44   XXXIII wave angle govin   14   6.67   15   7.14   10   3.30   6.38   3.78   17.62   11   5.24   10   0.00   0.29   XXIV wave angle govin   14   6.67   15   7.14   10   5.667   41   19.92   15   7.14   10   9.25   15   7.14   10   9.25   15   7.14   10   9.25   15   7.14   10   9.25   15   7.14   10   9.25   15   7.14   10   9.25   15   7.14   10   9.25   15   7.14   10   9.25   15   7.14   10   9.25   15   7.14   10   9.25   15   7.14   10   9.25   15   7.14   10   9.25   10   9.25   7.14   10   9.25   10   9.25   7.14   10   9.25   10   9.25   7.14   10   9.25   10   9.25   7.14   10   9.25   10   9.25   7.14   10   9.25   10   9.25   7.14   10   9.25   10   9.25   7.14   10   9.25   10   9.25   7.14   10   9.25   1.25   9.2	J 1														
wawe flooring         3         1.43         28         1.33         82         3.904         68         3.238         4         1.90         2.5         1.90         2.44         XXXV         waw ammentanian         14         6.67         15         7.14         13.3         63.33         37         17.02         11         5.24         0.0         2.92         XXIV         waw ammentanian         28         13.81         7         7.44         13.9         5.667         41         19.52         10.9         4.8         8.77         2.70         XXIX         waw ammentanian         29         13.81         7         4.33         10.9         18.8         40         19.52         15         1.48         2.70         XXIX         XXXV         XXXXV         XXXXV         XXXXV         XXXXV         XXXXV										_					
www.ngnishancorg 11 6.67   15 7.14   193 6333   37 17.62   11 5.24   0 0.00 292   XXIV www.ngnishancorg 11 5.24   15 7.14   19 4.25   11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1															
www.pushbanerorg www.napishanerorg www.napishanerorg www.napishanerorg www.napishanerorg 13	U														
www.shomacain 29   138   7   338   108   51,33   40   9   429   100   47,62   33   15,71   22   10,48   18   8,57   2,68   XXXV www.shomacain 29   138   7   333   108   51,43   40   91,05   7   3,33   109   90,5   2,78   XXV www.shomacain 29   13   61,9   14   14   14   14   14   14   14   1	-														
www.shana.cin												_			
www.agriculmra.gsba n.gov.in 103	J 1														
www.agricultner-rajastha   no.															
ngovin         103         49.05         61         29.05         25         11.90         18         8.57         0         0.00         3         1.43         4.14         XIV           Kisan Call Centre         41         19.52         22         10.48         8.57         12         5.71         105         5.90         1.82         XLIV           Information Kisoks         13         6.19         47         22.38         50         23.81         33         15.71         6         2.26         6.1         2.905         2.26         XL           E-miura         5         2.28         35         16.67         112         53.33         31         14.76         3         14.3         2.9         14.90         2.0         XX           Radio         116         67.524         81         8.77         9         4.29         22         10.48         7         3.33         8.18         13.34         8.18         13.34         8.18         2.73         8.34         XXX           Digital Video Contentra         4         1.90         16         5.24         51         24.29         15         7.14         3         14.33         0         <	, č	13	6.19	13	6.19	130	61.90	27	12.86	8	3.81	19	9.05	2.71	XXVIII
Kisan Call Centre   41   19.52   22   10.48   18   8.77   12   5.71   105   50.00   1.82   XIIV Information Kiosks   13   6.19   47   22.38   50   23.81   33   15.71   6.5   2.66   61   29.08   22.6   XII.	C 3	102	10.05	61	20.05	25	11.00	10	0.57	0	0.00		1 42	4 1 4	3/13/
Information Kiosks															
E-chaignal															
E-mitra															
TV															
Radio															
Demonstration Models	· · · · · · · · · · · · · · · · · · ·											_			
Digital Video Camera   4	Radio	116													
e-newspaper   160   76.19   12   5.71   16   7.62   4   1.90   9   4.29   9   4.29   4.35   XIII   e-hooklets   10   4.76   68   32.38   78   37.14   22   10.48   18   8.57   14   6.67   2.94   XXIII										3					
E-booklets   10	Digital Video Camera														
Messenger App	e-newspaper	160	76.19	12	5.71	16	7.62		1.90		4.29	9	4.29	4.35	XIII
WhatsApp	e-booklets	10	4.76	68	32.38	78	37.14	22	10.48	18	8.57	14	6.67	2.94	XXIII
M Kisan App or Kisan   Sovidha   20   9.52   64   30.48   43   20.48   0   0.00   25   11.90   58   27.62   2.43   XXXVI     M	Messenger App														
Savidha   20   9.52   64   30.48   43   20.48   0   0.00   25   11.90   58   27.62   2.43   XXXVII   QApp   5   2.38   0   0.00   2   0.95   0   0.00   3   1.43   200   95.23   0.01   LIII   VXV Sandesh App   32   15.23   26   12.38   2   0.95   11   5.24   25   11.90   114   54.28   1.50   XLV   Video Conferencing   1   0.48   1   0.48   59   28.10   124   59.05   20   9.52   5   2.38   2.16   XLI   2-books   1   0.48   32   15.24   117   55.71   40   19.05   7   3.33   13   61.9   2.72   XXVII   2-books   7   3.33   29   13.81   105   50.00   55   26.19   7   3.33   1   0.48   3.26   XXI   XXVII   2-books   10   4.76   91   43.33   61   29.05   40   19.05   7   3.33   1   0.48   3.26   XXI   XXVII   2-books   154   73.33   37   17.62   13   61.9   5   2.38   1   0.48   0   0.00   4.61   IX   XI   XI   XI   XI   XI   XI   X	WhatsApp	210	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	5.00	I
In   In   In   In   In   In   In   In	M Kisan App or Kisan														
New York Sandesh App   32   15.23   26   12.38   2   0.95   11   5.24   25   11.90   114   54.28   1.50   XLV	Suvidha	20	9.52	64	30.48	43	20.48	0	0.00	25	11.90	58	27.62	2.43	XXXVI
Video Conferencing	IQ App	5	2.38	0	0.00	2	0.95	0	0.00	3	1.43	200	95.23	0.01	LIII
e-books	KVK Sandesh App	32	15.23	26	12.38	2	0.95	11	5.24	25	11.90	114	54.28	1.50	XLV
e-journals	Video Conferencing	1	0.48	1	0.48	59	28.10	124	59.05	20	9.52	5	2.38	2.16	XLI
Comparison   Com	e-books	1	0.48	32	15.24	117	55.71	40	19.05	7	3.33	13	6.19	2.72	XXVII
e-agricultural magazines	e-journals	7	3.33	29	13.81	105	50.00	55	26.19	7		7	3.33		
Agriculture Information portals   154   73.33   37   17.62   13   6.19   5   2.38   1   0.48   0   0.00   4.61   IX   Agriculture App   151   71.90   23   10.95   31   14.76   2   0.95   1   0.48   2   0.95   4.50   XII   Agri Media Video App   8   3.81   22   10.48   86   40.95   15   71.4   9   4.29   70   33.33   2.02   XLIII   Kisan Yojana   14   6.67   35   16.67   103   49.05   2   0.95   6   2.86   50   23.81   2.52   XXXII   Farmer Bee- RML   Farmer Search   186   88.57   8   3.81   6   2.86   2   0.95   1   0.48   6   2.86   50   23.81   2.52   XXXII   Farmer's Portal   186   88.57   8   3.81   6   2.86   2   0.95   1   0.48   6   2.905   2.73   XXVI   E-Nam   53   25.24   25   11.90   68   32.38   2   0.95   1   0.48   6   2.86   0.95   2.73   XXVI   Agro Advisory and   194   92.38   1   0.48   2   0.95   0   0.00   0   0.00   6   2.86   4.67   VIII   Agro Advisory and   194   92.38   1   0.48   2   0.95   0   0.00   0   0.00   13   6.19   4.67   VIII   RML Farmer-Krishi   Mitra   4   1.90   12   5.71   8   3.81   39   18.57   2   0.95   145   69.04   0.81   XLVI   RML Farmer-Krishi   4   1.90   12   5.71   8   3.81   39   18.57   2   0.95   145   69.04   0.81   XLVI   Rheti-Badi   42   2.000   21   10.00   112   53.33   2   2.95   1   0.48   31   14.76   2.52   XXXII   Rotation   4   1.90   12   5.71   8   3.81   39   18.57   2   0.95   145   69.04   0.81   XLVI   Rotation   4   1.90   12   5.71   8   3.81   39   18.57   2   0.95   145   69.04   0.81   XLVI   Rotation   55   26.19   22   10.48   122   58.10   3   14.31   1   0.48   7   3.33   3.50   XVIII   Rotation   55   26.19   22   10.48   122   58.10   3   14.31   1   0.48   31   14.76   2.52   XXXII   Rotation   7   8.10   11   5.24   89   42.38   59   28.10   1   0.48   31   14.76   2.52   XXXII   Rotation   7   8.10   11   5.24   89   42.38   59   28.10   1   0.48   31   14.76   2.52   XXXII   Rotation   7   8   8   8   8   8   8   8   8   8	e-agricultural magazines	10		91		61		40	19.05	7		1	0.48		
Portrals   154   73.33   37   17.62   13   6.19   5   2.38   1   0.48   0   0.00   4.61   IX															
IFFCO Kisan App	0	154	73.33	37	17.62	13	6.19	5	2.38	1	0.48	0	0.00	4.61	IX
IFFCO Kisan App	Agriculture App			(											
Agri Media Video App         8         3.81         22         10.48         86         40.95         15         7.14         9         4.29         70         33.33         2.02         XLIII           Kisan Yojana         14         6.67         35         16.67         103         49.05         2         0.95         6         2.86         50         23.81         2.52         XXXII           Farmer Bee- RML Farmer's Portal         186         88.57         8         3.81         6         2.86         2         0.95         10         0.00         8         3.81         4.69         VII           E-Nam         53         25.24         25         11.90         68         32.38         2         0.95         1         0.48         61         29.05         2.73         XXVI           KVK Mobile App         177         84.29         15         7.14         12         5.71         0         0.00         0         0.00         6         2.86         4.67         VIII           Agro Advisory and Weather Forecast         194         92.38         1         0.48         2         0.95         0         0.00         0         0.00         13		151	71.90	23	10.95	31	14.76	2	0.95	1	0.48	2	0.95	4.50	XII
Risan Yojana		8	3.81	-	10.48	86	40.95	15		9	4.29	70	33.33	2.02	XLIII
Farmer Bee- RML Farmers 0 0.00 14 6.67 19 9.05 21 10.00 2 0.95 154 73.33 0.75 XLVII Farmers Portal 186 88.57 8 3.81 6 2.86 2 0.95 0 0.00 8 3.81 4.69 VII E-Nam 53 25.24 25 11.90 68 32.38 2 0.95 1 0.48 61 29.05 2.73 XXVI XVI Mobile App 177 84.29 15 7.14 12 5.71 0 0.00 0 0.00 6 2.86 4.67 VIII Agro Advisory and Weather Forecast 194 92.38 1 0.48 2 0.95 0 0.00 0 0.00 13 6.19 4.67 VIII Crop Contingency Plan 10 4.76 6 2.86 108 51.43 52 24.76 1 0.48 33 15.71 2.40 XXXVI RML Farmer - Krishi Mitra 4 1.90 12 5.71 8 3.81 39 18.57 2 0.95 1 0.48 6 2.86 3.64 XVI RML Farmer - Krishi Mitra 4 1.90 12 5.71 8 3.81 39 18.57 2 0.95 145 69.04 0.81 XLVI RML Farmer - Krishi Gyan 55 26.19 22 10.48 122 58.10 3 1.43 1 0.48 7 3.33 3.50 XVIII Crop Insurance 17 8.10 11 5.24 89 42.38 59 28.10 1 0.48 33 15.71 2.45 XXXIV App to gather crop information 8 3.80 10 4.76 76 36.19 71 33.81 1 0.48 4 20.09 3.7 17.62 2.37 1					16.67	103	49.05			6	2.86	50			XXXII
Farmers 0 0 0.00 14 6.67 19 9.05 21 10.00 2 0.95 154 73.33 0.75 XLVII Farmer's Portal 186 88.57 8 3.81 6 2.86 2 0.95 0 0.00 8 3.81 4.69 VII E-Nam 53 25.24 25 11.90 68 32.38 2 0.95 1 0.48 61 29.05 2.73 XXVI KVK Mobile App 177 84.29 15 7.14 12 5.71 0 0.00 0 0.00 6 2.86 4.67 VIII Agro Advisory and Weather Forecast 194 92.38 1 0.48 2 0.95 0 0.00 0 0.00 13 6.19 4.67 VIII Crop Contingency Plan 10 4.76 6 2.86 108 51.43 52 24.76 1 0.48 33 15.71 2.40 XXXVII RMIF Farmer - Krishi Mitra 4 1.90 12 5.71 8 3.81 39 18.57 2 0.95 1 0.48 6 2.86 3.64 XVI Rheti- Badi 42 20.00 21 10.00 130 61.90 2 0.95 2 0.95 13 6.19 3.29 XX Krishi Gyan 55 26.19 22 10.48 122 58.10 3 1.43 1 0.48 7 3.33 3.50 XVIII Crop Insurance 17 8.10 12 5.71 98 46.67 51 24.29 1 0.48 31 14.76 2.52 XXXII Agri Market 17 8.10 11 5.24 89 42.38 59 28.10 1 0.48 44 20.95 2.14 XLII Smart Farm 16 7.62 11 5.24 82 39.05 64 30.48 0 0.00 37 17.62 2.37 1	·														
E-Nam 53 25.24 25 11.90 68 32.38 2 0.95 1 0.48 61 29.05 2.73 XXVI KVK Mobile App 177 84.29 15 7.14 12 5.71 0 0.00 0 0.00 6 2.86 4.67 VIII Agro Advisory and Weather Forecast 194 92.38 1 0.48 2 0.95 0 0.00 0 0.00 13 6.19 4.67 VIII Crop Contingency Plan 10 4.76 6 2.86 108 51.43 52 24.76 1 0.48 33 15.71 2.40 XXXVII RML Farmer - Krishi Mitra 4 1.90 12 5.71 8 3.81 39 18.57 2 0.95 145 69.04 0.81 XLVI Pusa Krishi 68 32.38 21 10.00 112 53.33 2 0.95 1 0.48 6 2.86 3.64 XVI Kheti- Badi 42 20.00 21 10.00 130 61.90 2 0.95 1 0.48 6 2.86 3.64 XVI Krishi Gyan 55 26.19 22 10.48 122 58.10 3 1.43 1 0.48 7 3.33 3.50 XVIII Crop Insurance 17 8.10 12 5.71 98 46.67 51 24.29 1 0.48 31 14.76 2.52 XXXII Agri Market 17 8.10 11 5.24 89 42.38 59 28.10 1 0.48 44 20.95 2.14 XLII Smart Farm 16 7.62 11 5.24 82 39.05 64 30.48 0 0.00 37 17.62 2.37 1		0	0.00	14	6.67	19	9.05	21	10.00	2	0.95	154	73.33	0.75	XLVII
KVK Mobile App         177         84.29         15         7.14         12         5.71         0         0.00         0         0.00         6         2.86         4.67         VIII           Agro Advisory and Weather Forecast         194         92.38         1         0.48         2         0.95         0         0.00         0         0.00         13         6.19         4.67         VIII           Crop Contingency Plan         10         4.76         6         2.86         108         51.43         52         24.76         1         0.48         33         15.71         2.40         XXXVIII           RML Farmer - Krishi Mitra         4         1.90         12         5.71         8         3.81         39         18.57         2         0.95         145         69.04         0.81         XLVI           Pusa Krishi         68         32.38         21         10.00         112         53.33         2         0.95         1         0.48         6         2.86         3.64         XVI           Kheti- Badi         42         20.00         21         10.00         130         61.90         2         0.95         2         0.95         13	Farmer's Portal	186	88.57	8	3.81	6	2.86	2	0.95	0	0.00	8	3.81	4.69	VII
KVK Mobile App         177         84.29         15         7.14         12         5.71         0         0.00         0         0.00         6         2.86         4.67         VIII           Agro Advisory and Weather Forecast         194         92.38         1         0.48         2         0.95         0         0.00         0         0.00         13         6.19         4.67         VIII           Crop Contingency Plan         10         4.76         6         2.86         108         51.43         52         24.76         1         0.48         33         15.71         2.40         XXXVVII           RML Farmer Krishi Mitra         4         1.90         12         5.71         8         3.81         39         18.57         2         0.95         145         69.04         0.81         XLVI           Pusa Krishi         68         32.38         21         10.00         112         53.33         2         0.95         1         0.48         6         2.86         3.64         XVI           Kheti-Badi         42         20.00         21         10.00         130         61.90         2         0.95         2         0.95         13	E-Nam	53	25.24	25	11.90	68	32.38	2	0.95	1	0.48	61	29.05	2.73	XXVI
Agro Advisory and Weather Forecast         194         92.38         1         0.48         2         0.95         0         0.00         0         0.00         13         6.19         4.67         VIII           Crop Contingency Plan         10         4.76         6         2.86         108         51.43         52         24.76         1         0.48         33         15.71         2.40         XXXVII           RML Farmer – Krishi         4         1.90         12         5.71         8         3.81         39         18.57         2         0.95         145         69.04         0.81         XLVI           Pusa Krishi         68         32.38         21         10.00         112         53.33         2         0.95         1         0.48         6         2.86         3.64         XVI           Kheti- Badi         42         20.00         21         10.00         130         61.90         2         0.95         2         0.95         13         6.19         3.29         XX           Krishi Gyan         55         26.19         22         10.48         122         58.10         3         1.43         1         0.48         31 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0</td><td></td><td></td><td></td><td></td><td></td></td<>										0					
Weather Forecast         194         92.38         1         0.48         2         0.95         0         0.00         0         0.00         13         6.19         4.67         VIII           Crop Contingency Plan         10         4.76         6         2.86         108         51.43         52         24.76         1         0.48         33         15.71         2.40         XXXVII           RML Farmer – Krishi         Mitra         4         1.90         12         5.71         8         3.81         39         18.57         2         0.95         145         69.04         0.81         XLVI           Pusa Krishi         68         32.38         21         10.00         112         53.33         2         0.95         1         0.48         6         2.86         3.64         XVI           Kheti- Badi         42         20.00         21         10.00         130         61.90         2         0.95         1         0.48         6         2.86         3.64         XVI           Krishi Gyan         55         26.19         22         10.48         12         58.10         3         1.43         1         0.48         31															
Crop Contingency Plan         10         4.76         6         2.86         108         51.43         52         24.76         1         0.48         33         15.71         2.40         XXXVII           RML Farmer – Krishi         Mitra         4         1.90         12         5.71         8         3.81         39         18.57         2         0.95         145         69.04         0.81         XLVI           Pusa Krishi         68         32.38         21         10.00         112         53.33         2         0.95         1         0.48         6         2.86         3.64         XVI           Kheti- Badi         42         20.00         21         10.00         130         61.90         2         0.95         1         0.48         6         2.86         3.64         XVI           Krishi Gyan         55         26.19         22         10.48         122         58.10         3         1.43         1         0.48         7         3.33         3.50         XVIII           Crop Insurance         17         8.10         11         5.24         89         42.38         59         28.10         1         0.48         31		194	92.38	1	0.48	2	0.95	0	0.00	0	0.00	13	6.19	4.67	VIII
RML Farmer – Krishi         4         1.90         12         5.71         8         3.81         39         18.57         2         0.95         145         69.04         0.81         XLVI           Pusa Krishi         68         32.38         21         10.00         112         53.33         2         0.95         1         0.48         6         2.86         3.64         XVI           Kheti- Badi         42         20.00         21         10.00         130         61.90         2         0.95         2         0.95         13         6.19         3.29         XX           Krishi Gyan         55         26.19         22         10.48         122         58.10         3         1.43         1         0.48         7         3.33         3.50         XVIII           Crop Insurance         17         8.10         12         5.71         98         46.67         51         24.29         1         0.48         31         14.76         2.52         XXXII           Agri Market         17         8.10         11         5.24         89         42.38         59         28.10         1         0.48         33         15.71         2.45		10	4.76	6	2.86			52	24.76	1	0.48	33			XXXVII
Mitra         4         1.90         12         5.71         8         3.81         39         18.57         2         0.95         145         69.04         0.81         XLVI           Pusa Krishi         68         32.38         21         10.00         112         53.33         2         0.95         1         0.48         6         2.86         3.64         XVI           Kheti- Badi         42         20.00         21         10.00         130         61.90         2         0.95         2         0.95         13         6.19         3.29         XX           Krishi Gyan         55         26.19         22         10.48         122         58.10         3         1.43         1         0.48         7         3.33         3.50         XVIII           Crop Insurance         17         8.10         12         5.71         98         46.67         51         24.29         1         0.48         31         14.76         2.52         XXXIII           Apri Market         17         8.10         11         5.24         89         42.38         59         28.10         1         0.48         33         15.71         2.45															
Pusa Krishi         68         32.38         21         10.00         112         53.33         2         0.95         1         0.48         6         2.86         3.64         XVI           Kheti- Badi         42         20.00         21         10.00         130         61.90         2         0.95         2         0.95         13         6.19         3.29         XX           Krishi Gyan         55         26.19         22         10.48         122         58.10         3         1.43         1         0.48         7         3.33         3.50         XVIII           Crop Insurance         17         8.10         12         5.71         98         46.67         51         24.29         1         0.48         31         14.76         2.52         XXXII           Agri Market         17         8.10         11         5.24         89         42.38         59         28.10         1         0.48         33         15.71         2.45         XXXIV           App to gather crop information         8         3.80         10         4.76         76         36.19         71         33.81         1         0.48         44         20.95		4	1.90	12	5.71	8	3.81	39	18.57	2	0.95	145	69.04	0.81	XLVI
Kheti- Badi         42         20.00         21         10.00         130         61.90         2         0.95         2         0.95         13         6.19         3.29         XX           Krishi Gyan         55         26.19         22         10.48         122         58.10         3         1.43         1         0.48         7         3.33         3.50         XVIII           Crop Insurance         17         8.10         12         5.71         98         46.67         51         24.29         1         0.48         31         14.76         2.52         XXXII           Agri Market         17         8.10         11         5.24         89         42.38         59         28.10         1         0.48         33         15.71         2.45         XXXIV           App to gather crop information         8         3.80         10         4.76         76         36.19         71         33.81         1         0.48         44         20.95         2.14         XLII           Smart Farm         16         7.62         11         5.24         82         39.05         64         30.48         0         0.00         37         17.62	Pusa Krishi	68	32.38	21	10.00	112	53.33	2	0.95	1	0.48	6	2.86	3.64	XVI
Krishi Gyan         55         26.19         22         10.48         122         58.10         3         1.43         1         0.48         7         3.33         3.50         XVIII           Crop Insurance         17         8.10         12         5.71         98         46.67         51         24.29         1         0.48         31         14.76         2.52         XXXII           Agri Market         17         8.10         11         5.24         89         42.38         59         28.10         1         0.48         33         15.71         2.45         XXXIV           App to gather crop information         8         3.80         10         4.76         76         36.19         71         33.81         1         0.48         44         20.95         2.14         XLII           Smart Farm         16         7.62         11         5.24         82         39.05         64         30.48         0         0.00         37         17.62         2.37         I		42						2	0.95	2	0.95	13		3.29	
Crop Insurance         17         8.10         12         5.71         98         46.67         51         24.29         1         0.48         31         14.76         2.52         XXXII           Agri Market         17         8.10         11         5.24         89         42.38         59         28.10         1         0.48         33         15.71         2.45         XXXIV           App to gather crop information         8         3.80         10         4.76         76         36.19         71         33.81         1         0.48         44         20.95         2.14         XLII           Smart Farm         16         7.62         11         5.24         82         39.05         64         30.48         0         0.00         37         17.62         2.37         I		55				122			1.43	1	0.48	7			
Agri Market         17         8.10         11         5.24         89         42.38         59         28.10         1         0.48         33         15.71         2.45         XXXIV           App to gather crop information         8         3.80         10         4.76         76         36.19         71         33.81         1         0.48         44         20.95         2.14         XLII           Smart Farm         16         7.62         11         5.24         82         39.05         64         30.48         0         0.00         37         17.62         2.37         I	•														
App to gather crop information 8 3.80 10 4.76 76 36.19 71 33.81 1 0.48 44 20.95 2.14 XLII Smart Farm 16 7.62 11 5.24 82 39.05 64 30.48 0 0.00 37 17.62 2.37 I															
information         8         3.80         10         4.76         76         36.19         71         33.81         1         0.48         44         20.95         2.14         XLII           Smart Farm         16         7.62         11         5.24         82         39.05         64         30.48         0         0.00         37         17.62         2.37         I															
Smart Farm 16 7.62 11 5.24 82 39.05 64 30.48 0 0.00 37 17.62 2.37 XXXVII		8	3.80	10	4.76	76	36.19	71	33.81	1	0.48	44	20.95	2.14	XLII
16 7.62 11 5.24 82 39.05 64 30.48 0 0.00 37 17.62 2.37 I				-											
		16	7.62	11	5.24	82	39.05	64	30.48	0	0.00	37	17.62	2.37	
	Fasal Salah		8.57		2.38				9.52	0	0.00	56			XXXIX

Agriculture and Farming														
App	0	0.00	1	0.48	19	9.05	19	9.05	0	0.00	171	81.43	0.47	XLVIII
Agro connect	0	0.00	0	0.00	7	3.33	14	6.67	0	0.00	189	90.00	0.23	XLIX
Farm Key	0	0.00	0	0.00	0	0.00	7	3.33	0	0.00	203	96.67	0.07	LII
Agro Medix Agriculture														
App	0	0.00	0	0.00	0	0.00	7	3.33	0	0.00	203	96.67	0.07	LII
Mahadhan App	0	0.00	0	0.00	7	3.33	7	3.33	0	0.00	196	93.33	0.17	LI
My Agri Guru	0	0.00	6	2.86	7	3.33	0	0.00	0	0.00	197	93.81	0.21	L
Uzhawan	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	210	100.00	0.00	LIV
You-Tube	195	92.86	9	4.29	5	2.38	1	0.48	0	0.00	0	0.00	4.90	III

**CONCLUSION:** Thus it can be concluded that almost every day KVK scientists are using Smart Phone, Computer, You-Tube, agriculture official website www.kvk.icar.gov.in, www.atarijodhpur.in to update their technical knowledge. ICT tools like My Agri Guru, Mahadhan App, Agro Medics Agriculture App, and Farm Key App often did not used. The maximum use of ICT tools by the scientist was WhatsApp and Smart Phones so that agriculture related information could be obtained from time to time.

## **COMPETING INTERESTS DISCLAIMER:**

Authors have declared that no competing interests exist. The products used for this research are commonly and predominantly use products in our area of research and country. There is absolutely no conflict of interest between the authors and producers of the products because we do not intend to use these products as an avenue for any litigation but for the advancement of knowledge. Also, the research was not funded by the producing company rather it was funded by personal efforts of the authors.

## **REFERENCES:**

- 1. Adebayo, E.L. and Adesope, O.M. (2007). Awareness, Access and Usage of Information and Communication Technologies between Female Researchers and Extensionists. Int. J. Edu. Dev. Info. Comm. Tech. 3(1):85-93.
- 2. Adekunjo, Olalekan, A., E.S. and Abiola, S. (2013). The Impact of Information and Communication Technology on Research Output of Scientist in Two Selected Nigerian Agricultural Research Institutes. J. Sc. Tech. 3(5):568-573.
- 3. Deora, R. and Gupta, M. (2015). Extent of use of Information Communication Technologies by Subject Matter Specialists of Krishi Vigyan Kendras of MPUAT, Udaipur, Rajasthan. J. Prog. Ag. 5(2):11-13.

- 4. Ghasura, R.S., Mevada, V.K., Sheikh, A.S., Aswar, B.K. and Choudhary, G.M. (2012). ICT penetration of rural dairy farm entrepreneurs in Banaskantha district. J. Prog. Ag. Vol.2 (3): 94-98.
- 5. Kumar, A.U. and Kumar, D.R. (2009). Choose of Internet by the Scientists of CAZRI, A Survey. Ind. J. Lib. Inf. Sc. 3(1):15 –21.
- 6. Mtega, W.P. and Msungu, A.C. (2013). Using Information and Communication Technologies for Enhancing the Accessibility of Agricultural Information for Improved Agriculture Production in Tanzania. J. Inf. Syst. Dev. Count. 56(1):1-14.
- 7. Syiem, R. and Raj, S. (2015). Access and Usage of ICT's for Agriculture in Rural Development by the Travel Farmers in Meghalaya State of North-East India. J. Ag. Info. 6(3): 24-41.