

# Dr Phuldeep Kumar

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## Professional Summary

Expert of Science Communication, Public Relation, Print & Digital Media, and e-learning with more than 15 years of experience as practitioner. Distinguished record of organising four national conferences and two international conferences. Holds world record of organising biggest international conference on science in Hindi. Edited DRDO Samachar, a monthly house bulletin of DRDO for thirteen years. Started a periodical named Prodyogiki Vishesh, a defence science & technology magazine, in January 2013 and successfully published it for six years. Author of three books, Editor of eighteen books, and has published around sixty papers.

## Work Experience

| Grade/Post          | From        | To          | Estt/ Lab/ Institution | Nature of work   |
|---------------------|-------------|-------------|------------------------|--|
| Associate Professor | 13-Sep-2019 | Present     | CUH, Mahendergarh      | Teaching   |
| Scientist E         | 01-Jul-2019 | 13-Sep-2019 | DESIDOC                | Search Engine Optimization, Website Development  |
| Scientist D         | 01-Jul-2014 | 30-Jun-2019 | DESIDOC                | Bringing out publications, organizing workshops and conferences, and rajbhasha implementation. |
| Scientist C         | 01-Jul-2010 | 30-Jun-2014 | DESIDOC                | Bringing out publications, organizing workshops and conferences, and rajbhasha implementation. |
| Scientist B         | 11-Feb-2005 | 30-Jun-2010 | DESIDOC                | Bringing out publications, organizing workshops and conferences, and rajbhasha implementation. |

## Educational Qualifications

| Degree                         | Year | University  | Discipline  | Division       |
|--------------------------------|------|-------------|---|----------------|
| PhD                            | 2018 | MDU, Rohtak | Coverage of Defence Science & Technology by Indian Press: A study of select English dailies | Not Applicable |
| Master of Mass Communication   | 2006 | GJU, Hisar  | Mass Communication  | First          |
| Bachelor of Engineering (Hons) | 2002 | MDU, Rohtak | Electronics & Communication   | First          |

## Significant Contributions by Dr Phuldeep Kumar

### WORLD RECORD

**Organisation of International Hindi Conference:** Vishv ki Pragati main Vigyan tatha Prodyogiki ka Yogdan, 05-07 December 2013, Metcalfe House, Delhi. As Head, Rajbhasha, I took initiative in organisation of International Hindi Conference for the first time in history of DRDO. I performed duties of Organizing Secretary. The objective of this Conference was to generate technical literature in Hindi and provide platform for scientists and academicians world over to ponder over latest issues in science and technology in Hindi. Due to my untiring efforts, this turned out to be the biggest function of DRDO in 2013 (in terms of participation), and history has been made. The following is more information regarding the same:

- 660 Full Papers and 40 Abstracts were received.
- Papers were from 21 countries.
- Persons of 31 countries participated.
- Around 1200 Scientists, Academicians, and Research Scholars participated.
- Papers were presented in two categories Oral presentation (292 Nos.) and Poster presentation (368 Nos.).
- Papers were presented in 36 sessions for oral presentations and 07 sessions for poster presentations.
- Papers were presented in 06 halls simultaneously.
- All participants were provided with conference kit, book, conference proceeding, program, CD containing papers.
- Science exhibition was also organized 22 institutes participated.
- Received full papers were published in form of 11 edited books and one special publication from IIT, Delhi.
- Documentary film of conference was made and distributed among participants after the conference.
- Limca Book of Records have certified it as World Record.
- Secretary, Department of Official Language, Ministry of Home Affairs, Government of India, has issued commendation certificate.

**Edited Books Published:** The papers received for international Hindi conference were published in form of edited books. Eleven books in Hindi on various science subjects were generated. The challenging task of handling enormous no. of papers was performed by me. I edited all of them. List is given below:

- Vaigyanik Anusandhan, ISBN: 987-81-86514-40-5, 319 pages, 2013.
- Samkaleen Vaigyanik Anusandhan, ISBN: 987-81-86514-38-2, 276 pages, 2013.
- Vaigyanik Anusandhan tatha Vikas, ISBN: 987-81-86514-41-2, 290 pages, 2013.
- Samkaleen Vigyan, ISBN: 987-81-86514-42-9, 294 pages, 2013.
- Vishv ki Pragati main Vigyan tatha Prodyogiki ka Yogdan, ISBN: 987-81-86514-43-6, 210 pages, 2013.

- Vigyan, ISBN: 987-81-86514-44-3, 262 pages, 2013.
- Vigyan Sanchar, ISBN: 987-81-86514-45-0, 234 pages, 2013.
- Soochna Vigyan, ISBN: 987-81-86514-46-7, 261 pages, 2013.
- Aaj ki Hindi, ISBN: 987-81-86514-47-4, 320 pages, 2013.
- Vartman Vaigyanik Anusandhan, ISBN: 987-81-86514-48-1, 256 pages, 2013.
- Vigyan evam Sanskriti, ISBN: 987-81-86514-49-8, 199 pages, 2013.

## **INTERNATIONAL BILINGUAL CONFERENCE**

**Organisation of Bilingual International Conference:** Information Technology: Yesterday, Today, and Tomorrow, 19-21 February 2015, Patel Chest, Delhi. I conceptualised, planned, and organised Bilingual International Conference for the first time in history of DRDO. I performed duties of Organizing Secretary. The objective of this Conference was to generate technical literature in Hindi and provide platform for scientists and academicians world over to ponder over latest issues in information technology in Hindi and English. The following is more information regarding the same:

- 650 Full Papers were received, out of these 450 were selected.
- Participants from foreign countries were 44.
- Persons of 19 countries participated.
- 978 Scientists, Academicians, and Research Scholars participated.
- Papers were presented in two categories Oral presentation (270 Nos.) and Poster presentation (180 Nos.).
- Papers were presented in 28 sessions for oral presentations and 07 sessions for poster presentations.
- Papers were presented in 04 halls simultaneously.
- All participants were provided with conference kit, book, conference proceeding, program, CD containing papers.
- Exhibition was also organized 12 institutes participated.
- Received full papers were published in form of 06 edited books.
- All titles, abstracts, and conclusions were published both in Hindi & English in these 06 edited books.
- Logo of conference was made.
- A dedicated website for the conference was made on which all information was shared.
- All presentations during the conference were video recorded for uploading on e-learning portal.

**Edited Books Published:** The papers received for Bilingual International Conference were published in form of edited books. Six books (03 in Hindi and 03 in English) on

various science subjects were generated. The challenging task of handling enormous no. of papers was performed by me. I edited all of them. List is given below:

- Soochna Prodyogiki: Kal, Aaj, Aur Kal. ISBN: 987-81-86514-68-9, 220 pages.
- Soochna Prabandhan, ISBN: 987-81-86514-69-6, 244 pages.
- Soochna Aur Samaj. ISBN: 987-81-86514-70-2, 330 pages.
- Electronic Resources and Digital Services. ISBN: 987-81-86514-72-6, 256 pages.
- Artificial Intelligence and Network Security. ISBN: 987-81-86514-73-3, 300 pages.
- Managing Information Technology. ISBN: 987-81-86514-71-9, 328 pages.

**Organisation of National Conferences:** As Head, Rajbhasha, I took initiative in organisation of Rajbhasha Vigyanik/Takniki Sangosthi in 2010 and 2011. The objective of these Conferences was to generate technical literature in Hindi. These initiatives were phenomenal success. The following is more information regarding the same:

- Hindi ke prachar prasar main Soochna Prodyogiki ka Yogdan (12 February 2010). 29 papers were presented. Papers presented were brought out in form of a book: Hindi ke Prachar Prasar main Soochna Prodyogiki ka Yogdan, ISBN: 978-81-86514-30-6, 144 pages, DESIDOC, 2010.
- Rashtra ki Pragati main Vigyan tatha Prodyogiki ka Yogdan (17 March 2011). 51 papers were presented (This was the maximum participation in any Rajbhasha Vigyanik/Takniki Sangosthi in history of DESIDOC). Papers presented were brought out in form of a book: Rashtra ki Pragati main Vigyan tatha Prodyogiki ka Yogdan, ISBN: 978-81-86514-56-6, 220 pages, DESIDOC, 2010.
- Anusandhan evam Vikas main Gyan Prabhandhan ki Bhumika (Akhil Bhartiya Rajbhasha Vigyanik/Takniki Sangosthi) 12-13 February 2009. Total number of 44 papers were presented. This was an improvement over last year record of 36. Proceedings of this were brought out in form of a book 'Anusandhan evam Vikas main Gyan Prabhandhan ki Bhumika', 300 copies, 354 pages, DESIDOC, 2009.
- Rashtra ki Pragati main Raksha Anusandhan tatha Vikas (Akhil Bhartiya Rajbhasha Vigyanik/Takniki Sangosthi) 05-06 February 2008. Total number of 36 papers were presented (This was the maximum participation in any Rajbhasha Vigyanik/Takniki Sangosthi in history of DESIDOC). Proceedings of this were brought out in form of a book 'Rashtra ki Pragati main Raksha Anusandhan tatha Vikas', 211 pages, 200 copies.

### **AUTHORED BOOKS**

To address the scarcity of scientific literature in Hindi, Books on Science Communication, Public Relation by S&T Organisations, and Technical Writing were authored & published by me. The details are as following:

- Vigyan Sanchar Ke Vividh Aayaam; Phuldeep Kumar & Suresh Kumar Jindal, ISBN: 978-81-86514-82-5, 258 pages.

- Vaigyanik Evam Prodyogiki Sangathanon ke jansampark prayas; Phuldeep Kumar & Suresh Kumar Jindal, ISBN: 978-81-86514-81-8, 126 pages.
- Prabhavi Takneeki Lekhan; Phuldeep Kumar & Suresh Kumar Jindal, ISBN: 978-81-86514-80-1, 169 pages.

## **NEW INITIATIVES**

**Digital Archival of DRDO House Publications:** The project involves the digital archival of DRDO House publications DRDO Newsletter, DRDO Samachar, Technology Focus, Prodyogiki Vishesh, Defence Science Journal, DJLIT, Gyandeeep, Hindi Monographs, Technical reports, etc. The objective is preservation, improved accessibility for its futuristic use. The new digitised documents will be device independent, software independent and searchable. HTML5 format and epub format is being used for creating the new digital version. The digital version has specialised features like text reflowability, pinch and zoom, adaptability to the screen size of the display device, etc.

**Prodyogiki Vishesh:** A bi-monthly technical Hindi bulletin of DRDO. The publication highlights major achievements of DRDO in terms of new products & technologies developed, services offered, and facility up-gradation. This publication was started by me in January 2013 on quarterly basis. This publication is being published on bi-monthly basis from January 2018. The publication is being mailed to 2500 addresses every month. These include Services, bureaucrats, political leadership, universities, major R&D institutions of the country, engineering colleges, etc. Publication is also available on internet and DRONA for all. Online subscription facility has been started.

**DRDO Video Patrika:** A monthly video magazine of DRDO. The video magazine highlights the major achievements of DRDO labs/estts. This video magazine was started in June 2013. It continued till September 2014. It covered news under various sections, viz. new developments, facility creation, patents obtained, products & technologies for civil applications, national/international conferences, human resource development, awards, sports, visits, etc. I was Editor of this video magazine, and worked as team member in production. This is available on internet and DRONA for all.

**DRDO Vishesh Prakashan Shrinkhla:** Availability of scientific literature in Hindi is scarce. To address this, I have started DRDO Vishesh Prakashan Shrinkhla as Editor. In this books are published in Hindi in areas of work of the Organization. My efforts have fructified in form of following books:

- DRDO: Ek Swarnim Yatra. ISBN: 978-81-86514-50-4, 144 pages.
- Laser: Sidhant evam Upyog. ISBN: 978-81-86514-50-4, 150 pages.
- Millimeter Prodyogiki. ISBN: 978-81-86514-55-9, 107 pages.
- Pratiraksha Jeev Vigyan: Ek Parichay. ISBN: 978-81-86514-54-2, 90 pages.

- Prakashiya Tanu Film, 520 copies, 149 pages.
- Pratrakshatmak bachav tantra main kami se utpan rog–AIDS, 2000 copies, 62 pages.
- Laser: Manav anuprayogon main bhoomika. ISBN: 978-81-86514-87-0, 132 pages, 100 copies, 2016.
- Chadmavaran: Sankshipt Parichay, ISBN: 978-81-86514-57-3, 88 pages, 100 copies.
- Smritiyan: Atulaya Kalam. ISBN: 978-81-86514-58-0, 253 pages.
- Arjun Tank: Ek Safalta Ki Kahani, 2018 (Under Progress)

**Indian Institute of Management, Lucknow Project:** To address the need of DRDO employees regarding training in communication skills so that they may perform better at assessment boards, a new project has been undertaken in collaboration with IIM, Lucknow. Project involves training need analysis and improving communication skills at all levels.

### **EXISTING TASKS**

**Newspaper Clipping Service:** This is daily service. News from 17 dailies including both Hindi & English are scanned. The news covered are related to DRDO, Defence Services, Science & Technology Institutes, International Defence Scenario, New Scientific & technological developments, General Science, and Central Government Policies, etc. My achievement in this regard was that I reduced the time taken in the entire process and was able to do the job by 11:00 am daily, which resulted in great popularity of service, it is the most popular service of DESIDOC. I handled this service from 2005 to 2008, and subsequently in 2015 for three months.

**DRDO Samachar:** A monthly Hindi in-house bulletin of DRDO. The publication highlights the major achievements of DRDO labs/estts. It covers news under various sections, viz. new developments, facility creation, patents obtained, products & technologies for civil applications, national/international conferences, human resource development, awards, sports, visits, etc. I am Editor of this publication. The improvement in terms content, timeliness, and circulation are the major achievements in this regard. When I took over as editor of this publication average no. of pages per issue were 6-8, whereas, now it is more than 44. It is being mailed to 2500 addresses every month. These include services, bureaucrats, political leadership, universities, major R&D institutions of the country, engineering colleges, etc. Publication is also available on internet and DRONA for all. Online subscription facility has been started.

**Technology Focus:** Three issues of Technology Focus were brought out: (i) Sep-Oct 2014 brought out on products & technologies under material cluster: products deployed. (ii) Nov-Dec 2014 brought out on products & technologies under material cluster: products under development (iii) Jan-Feb 2015 was brought out on Indigenous defence technologies for Chem-Bio Defence.

**On demand Publications:** DESIDOC being the nerve center of DRDO for the publication has obligation to produce high quality documents on demand by other laboratories/establishments. I have been involved in production of following:

- A report in Hindi was published for advisory committee of defence ministry: DRDO Karykramon ka Sankshipt Vivran, 88 pages, 2014.
- Navpravartan aur Aayaat Vikalp ki aur Unmukh Anusandhan Evam Vikas Pehal par Pristhbhoomi Note, 140 pages, 2016.
- Rajbhasha Pustak Puraskar Yojna, 2015.
- Sansadiya Samiti Report, 2015.
- Rastra Nirmaan Evam Raksha Anusandhan. Sammelan Smarika, 25-26 march 2015, 136 pages.
- DRDO karykramon ka Sankshipt Vivran, 88pages, 2014.
- DRDO DRDS Seniority Roll 2007, 25 copies, 366 pages.
- DRDO Admin & Allied Seniority Roll 2007, 125 copies, 88 pages.
- Policy and Guidelines for Corporate Review, 170 Copies, 28 pages.
- Guidelines for DRDO Newsletter Correspondents 2007, 150 Copies, 21 pages.
- Seniority Roll of DRDS, 2006, 20 Copies, 360 pages.
- Seniority Roll of Admin & Allied Cadre, 2006, 06 Copies, 86 pages.
- Record retention schedule in respect of records common to all ministries / Departments 200 Copies, 96 pages.
- Directory of DRDO current periodicals 2005, 60 Copies, 69 pages.
- Purchase Management 2006, 500 Copies, 117 pages.
- Proceedings of 29<sup>th</sup> DRDO Directors Meet, 39 pages, 2005.
- Stores Management Forms, 2005, 87 pages.
- Expenditure Management, 2005, 37 pages.
- Seniority Rolls DRDS Cadre, July 2005, 277 pages.
- Seniority Rolls Admin & Allied Cadre, 2005, 85 pages.
- DRDO Awards Booklet 2005.
- DRDO Technology Compendium, 2005, 250 copies, 172 pages.
- DRDO Life Sciences Compendium, 2005, 84 pages.
- Quality Quest, Vol. 6.2 & 7.1, 250 copies, 2005, 26 pages.
- Crypto System Acquisition Policy for Govt. of India, 1000 Copies, 17 pages.
- Quality Quest, Vol. 7.2 & 8.1, 250 copies, 2006, 39 pages.
- DRDO Technology Compendium 2004, 250 copies, 150 pages.
- International Seminar on Defence Finance & Economics – Seminar papers, 1000 copies, 555 pages.
- Proceedings of International Seminar on Defence Finance & Economics, Vol. 1, 650 copies, 655 pages.
- Proceedings of International Seminar on Defence Finance & Economics, Vol. 2, 650 copies, 310 pages.
- Innovations in Recruitment & Assessment Proceedings, 150 copies, 109 pages.
- DRDO Science Spectrum 2005, 05 copies, 281 pages.
- DRDO Science Spectrum 2006, 85 copies, 252 pages.

- DRDO Science Spectrum 2007, 310 copies, 339 pages.

**Rajbhasha Implementation Activities:** As Rajbhasha Adhikari, I have implemented Rajbhasha Protsahan Yojana and organized the Rajbhasha Hindi Pakhwara to promote the usage of Hindi and improve the skills of employees at all levels:

- Hindi Pakhwara: During Hindi Pakhwara many competitions (Kavita path, extempore, essay writing, letter drafting, translation, Hindi typing, poster making, dictation, storytelling, quiz, etc.) were organized among DESIDOC staff. 2010 (70 prizes were given), 2011(74 prize were given), 2012(110 prize were given), 2013(116 prize were given), 2008(67 prize were given), 2007(65 prize were given)
- Rajbhasha Protsahan Yojana: 2006 and 2007 (10 people were awarded each year), 2010 (20 people were awarded), 2011(24 people were awarded), 2012 (25 people were awarded), 2013 (30 people were awarded), and 2014(30 people were awarded).

**Hindi Website:** Hindi section activities are detailed on this website. I provide content for it. Matter available on website: Gyandeep (all issues), Hindi books published by DESIDOC, DRDO Samachar, Prodyogiki Vishesh, DRDO Video Patrika, Rajbhasha related directives, Minutes of meetings, Results of various competitions, online submission of Hindi timahi report, etc.

**Gyandeep:** In-house Hindi yearly magazine of DESIDOC. I am Editor of this publication. This contains contributions from DESIDOC family members. Six issues have been brought out: 2010 (92 pages), 2011 (93 pages), 2012 (72 pages), 2013 (152 pages), 2014, and 2015. Significant achievement in this regard is 'Utkrishi Patrika Parkashan Samman' conferred in Rashtriya Rajbhasha Sammelan, Jhansi, U.P. held on 09-10 April 2009.

**Committee of Parliament on Official Language Inspection:** Inspection of Rajbhasha implementation in DESIDOC was done by first sub-committee of Parliamentary Committee on Official Language on 14 February 2011. I coordinated it as Rajbhasha Adhikari. Committee appreciated the DESIDOC for implementation and bringing out quality Hindi publications.

**Human Resource Development Activities:** As Rajbhasha Adhikari, I have organized the following One day Hindi workshops (23 Nos.) to promote the usage of hindi and improve the skills of employees at all levels:

- Ling samvedikaran (05/03/2018) (143 participants).
- Tanav Prabandhan (01/03/2018) (142 participants).
- Bhavishay ke pustakalaya (22/02/2018) (119 participants).
- Sarkari Karmcharyon ke liye aachran niyam (25/01/2018) (130 participants).
- Swasth Jeevan ke Upay (13/01/2017) (122 participants).
- Pustakalaya main social media (22/02/2017) (118 participants).
- Pustakalaya ka Badalta Swaroop (23/02/2017) (109 participants).
- Bharat ki Rajbhasha Hindi (14/09/2017) (110 participants).
- Vigyan Sanchar (30/08/2016) (114 participants).



- Pariyojna Prabandhan (31/03/2016) (123 participants).
- e-library (23/02/2016) (127 participants).
- Hindi: Bhoot, Vartmaan, evam Bhavishay (27/04/2015) (113 participants).
- Vigyan Sanchar ke Nutan Prayas (20/03/2015) (117 participants).
- Media Aur Samaj (05/01/2015) (123 participants).
- Electronic Communication (02/05/2014) (30 participants).
- Vigyan Sanchar (19/02/2014) (115 participants).
- Hindi main Shodh Patrikayen (18/09/2014) (130 participants).
- Hindi and Japanese: Perspectives from contrastive linguistics and linguistic typology. (28/08/2014)(118 participants)(Prof miki nishioka, Osaka University, Japan).
- Vartman Pariprekshay main Hindi (04/09/2013) (111 participants).
- Achhi Sehat ke Ayurvedic Upay (03/06/2013) (120 participants).
- Rajbhasha ka Vartman Paridrishay (08/13/2013) (120 participants).
- Media Tatha Mahilayen (27/12/2012) (50 participants).
- Unicode (28/09/2012) (120 participants).
- ISO Parmanan (28/06/2012) (120 participants).
- Anuvad (06/01/2012) (35 participants).
- Unicode Tatha iska Karyanvayan (03/10/2011) (30 participants).
- Adhyatmic evam Mansik Chintan (29/07/2011) (125 participants).
- Hindi Software tatha Rajbhasha Karyanvayan (28/06/2011) (125 participants).
- Rajbhasha Karyanvayan (01/03/2011) (125 participants).
- Hindi Software (05/01/2011) (125 participants).
- Vigyan Sanchar (11/08/2010) (50 participants).
- Swasthaya tatha Tanav Rahit Jeevan (25/06/2010) (130 participants).
- DRDO main Rajbhasha Karyanvayan (19/02/2010) (135 participants).
- CEP Course on Current Trends in Digital Information Management, 21-25 July 2008. I acted as Deputy Course Director.
- One day Workshop (Hindi) on Hindi Translation Software (23/10/2007) (35 participants).
- One day Workshop (Hindi) on Admin Rules and Saransh Software (18/01/2008) (140 participants).
- One day Workshop (Hindi) on Training Programs and Grammatical Errors (07/05/2008) (50 participants).
- One day Workshop (Hindi) on Noting and Drafting (07/08/2008) (49 participants).
- One day Workshop (Hindi) on Translation (14/11/2008) (70 participants).
- One day Workshop (Hindi) on Popular Science Writing (06/03/2009) (50 participants).