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भारत संचार निगम लिमिटेड
(भारत सरकार का उपक्रम)
BHARAT SANCHAR NIGAM LIMITED
(A Govt. of India Enterprise)

NO.VAS-8/Nokia/2018/10

Dated 14th November 2018

To
All CGMs, Telecom Circles/ Telecom Districts/ Telecom Regions

Subject: Offering of Industry 4.0 services by BSNL in Partnership with Nokia - regarding.

Industry 4.0, the fourth industrial revolution, is the current trend of automation and data exchange in manufacturing technologies. Industry 4.0 is driven by connectivity where computers are connected and communicate with one another to ultimately make decisions without human involvement. A combination of cyber-physical systems -computer-controlled robots and machinery-, the Internet of Things and the Internet of Systems are the main factors for Industry 4.0 and consequently the concept of Smart factory.

2. There is immense Business opportunities for Industry 4.0 / Private LTE for BSNL for the digitization strategy of many enterprises, such as, manufacturing plants, Heavy industries, mines, refineries, warehouses, cargo terminals, public transportation hubs, Airports, Public Gatherings (Mela), big sports events etc.

3. BSNL has signed a Memorandum of Understanding (MoU) with **M/s Nokia** on 16th October 2016 for **Industry 4.0 standards and deployment in India**. The soft copy of the MoU & the technical Notes of M/s Nokia for Industry 4.0 is attached herewith.

4. As per MoU, the industry 4.0 has already been implemented at Nokia manufacturing Plant, Chennai. This partnership is first of its kind in Asia pacific, Africa and Oceania region. It will generate immense positive feedback for BSNL in India as well as globally. The names and contact details of the persons coordinating on behalf of the Nokia on any technical issue/ problem are below:

Sl.	Company	Name of Person	Contact Details
1	M/s Nokia Solutions and Networks India Pvt. Ltd.	Mr. Sudhanshu Lahri	Mob: 09811203360 Email: sudhanshu.lahri@nokia.com

5. EB team of the Circle/Region are requested to encash the business opportunities created by Industry 4.0.

Amitabh Kiran
14.11.18
[AMITABH KIRAN]
DM (VAS-I-2)

Encl: A/a

Copy to:

- 1) Director (EB) for kind information please
- 2) PGM (EB-I)/EB (II), BSNL Corporate Office, New Delhi
- 3) Sr.GM (CMTS)/ GM (CMTS) Nodal Center - Chandigarh/ Pune/ Kolkata/ Trichy
- 4) M/s. Nokia Solutions and Networks India Pvt. Ltd.