



YEAR BOOK 2017-18

Introduction

National Transport Research Centre (NTRC) is a Research and Development (R&D) organization under the Ministry of Communications for undertaking research studies in the field of Transport Planning and Engineering. The Centre has so far completed more than 300 research studies on various modes of transport, conducted various survey / demonstration projects, which have formed very useful input in the design, preparation/appraisal of transport sector projects and formulation of transport policy / plans.

NTRC is also acting as a focal point for Road and Road Transport Statistics for the various National and International agencies. NTRC collects data related to transport sector in the country. This includes published data and regular updating of information regarding road length, vehicular population, passenger / freight traffic, number of Goods / vehicle entering / exiting at Cross Border and Sea ports in Pakistan. The Center also collects district wise road accident data from all the provinces, AJK and Federal level.

2. Research Studies / Inception Reports

The following research studies / inception reports were conducted during the year 2017-18:-

- i. Axle Load survey on National Highways & Motorways at 110 locations.

- ii. Traffic Count Survey on National highways & Motorways N-5 (Torkhum-Kamra), N-45 (Nowshera - Chitral), M-I (Islamabad – Peshawar) and N-35 (Hassanabdal – Khunjrab).
- iii. Inception report of the study on Regulations for Geometric Pattern of Goods Vehicle Loading in Pakistan has been prepared.
- iv. Started Origin – Destination survey for Passenger & Freight Traffic on National Highways and Motorways in packages.
- v. Preparation work on Accident Data and Accident Cost study in Pakistan for collection of five years (2013-17) data from Police Stations & Hospitals.
- vi. Started work on Research studies on Rural Transportation under DFID grant titled ReCAP (Research for Community Access Partnership).

NTRC Projects

i) Ongoing Projects

NTRC Operational Research Program (ORP)

The main objective of NTRC Operational Research Program is to provide necessary R&D input in the field of transport sector in order to cope with the issues and deficiencies in the current transport system and to get the full benefits of the opportunities of geo-strategic location of Pakistan.

Keeping in view the issues / opportunities in the transport sector, the complex nature of its operations and rapidly changing technologies, it is indispensable that Research and Development (R&D) activities, especially indigenous effort at federal level should continue.

A proficient, reliable, safe transport and logistics network is crucial for improved productivity and comprehensiveness of Pakistan economy. The country's transport and logistics system is still

operating at high cost with low performance due to lack of guidelines / directions based on rigorous operational / applied research encompassing all essential elements regarding transport.

ii) Projects Approved by DDWP

In September, 2017 following three PC-I of the NTRC were revised and approved by DDWP forum:

a) NTRC Operational Research Program (ORP)

This program is an extension of NTRC operational Research Wing as the project completed its life cycle.

NTRC Operational Research Program on National Highway & Motorways was approved @ Rs. 43.37 Million.

b) NTRC Axle Load Survey Program (ALSP)

The project aims to carry out axle load survey on entire National Highways & Motorways Network at various selected survey points.

The Centre has procured consultancy firm for the project and is in execution phase:

NTRC Axle Load Program on National Highway & Motorways was approved @ Rs. 44.37 Million.

c) NTRC Permanent Traffic Count Program (PTCP)

The information about various characteristics of traffic flow are used in planning the road infrastructure and maintenance. In 1990, NTRC established Permanent Traffic Count Stations at various locations on National highways and conducted traffic counts. On the basis of Traffic Counts data, NTRC developed Traffic Factors for Pakistan which are still being widely used by the consultants and concerned government authorities both at federal and provincial levels. Keeping in view the changes taking

place in vehicle composition, travel pattern & road network and growing demand of the concerned authorities, there is dire need to update the traffic factors of Pakistan. The Centre has procured consultancy firm for the project and is in execution phase:

NTRC Permanent Traffic count program on National Highway & Motorways was approved at cost of Rs. 57.697 Millions.

3. Launching of New PC-I Projects

Moreover, it is stated that the center approved two new PC-I's titled "Accident data and cost study" and "Origin-Destination Survey" from Development Working Party (DDWP forum). Both of these projects were approved by DDWP forum on 18-10-2017 (Origin -Destination Survey) and 10-01-2018 (Accident Data & Cost Study) @ Rs. 57 Million and Rs. 57.8 Million respectively.

4. Technical Support to the Ministry of Communications

The Centre extends technical assistance to the Ministry of Communications (MOC) in the field of Roads and Road Transport and on various matters assigned from time to time. The Centre is also providing technical manpower to the Ministry of Communications.

5. Collaboration / Liaison with Department / Institution (NHA, NH & MP etc.)

The Centre has been extending its technical services to NHA, NH & MP, CDA and other concerned Federal / Provincial departments / Organizations. The Centre is also helping the Universities / Research Institutions to assist their students on their dissertation at M.Sc / M.S level.

As per direction of MOC the Centre has started work on with International agencies / organizations (KOICA, JICA and ADB) and assured their full cooperation and support in the assignments related to Road Transport.

The Center has also been granted 0.5 Million pounds as a grant by Department for International Development (DFID) under their project ReCAP (Research for Community Access Partnership) for development of Rural Roads in Pakistan from 2017 to 2020.

6. Capacity Enhancement Measures

Dissemination and sharing of information is one of the objectives of research. Seminars and workshops/training courses are important tool to achieve this objective.

The Centre has nominated a numbers of its officers to attend/participate in training courses/seminars and workshops within and outside the country during the year 2017-18. A brief description of seminar, workshop and trainings conducted during the period 2017-18 are as follows:-

- i. Participation in **“SAARC Training Program on Transport Policy and Infrastructure”** scheduled from 21st January, 2018 to 2nd February, 2018 in Tokyo, Japan.
- ii. NTRC Conducted One Day workshop titled **“Importance Data in Transport Sector”** in collaboration with SCEE, NUST, Islamabad on 3rd April, 2018.
- iii. NTRC Conducted One Day workshop titled **“Intelligent Transportation system in Pakistan”** in collaboration with SCEE, NUST, Islamabad on 19th April, 2018.
- iv. NTRC Conducted One Day workshop titled **“Safe Roads, Safe Pakistan”** in collaboration with SCEE, NUST, Islamabad on 10th May, 2018.
- v. Participation in **“World Transport Convention”** scheduled from 16th June, 2018 to 19th June, 2018 in Beijing, China.