NATIONAL TRANSPORT RESEARCH CENTRE

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URBAN TRANSPORT WING

IN

NATIONAL TRANSPORT RESEARCH CENTRE

PC-I

M.Sadiq Swati Senior Chief

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NTRC - 98

January 1989

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PART 'A'

PROJECT DIGEST

1. Name of Project: URBAN

URBAN TRANSPORT WING IN MTRC

2. Authorities responsible for :

(a) Sponsoring : PLANNING COMMISSION

(b) Execution : NATIONAL TRANSPORT RESEARCH CENTRE

(NTRC)

(c) Operation and NATIONAL TRANSPORT RESEARCH CENTRE (NTRC)

3. Time required for completion of Project: 48 months (July, 1989 - June, 1993)

4. (a) Plan Provision

(i) If the Project is included in the current five Year Plan, specify actual allocation:

From Rs. 125 million for NTRC during the 7th Five Year Plan.

(ii) If not included in the current Plan, how is it now proposed to be accommodated:

N.A.

(iii) If the project is proposed to be financed out of block provision for a programme indicate:

	Rs. Milli	on
	Amount	
Amount	Proposed for	Balance_
Already Committed	this Project	Available
50.0 (Phase-III NTRC 20.9 (R.R. Division)	33.3	20.8
	Already Committed	Amount Proposed for this Project 50.0 (Phase-III NTRC 33.3

(b) If Project is not in the Plan: What warrants its inclusion in the Plan:

N.A.

5. Relationship of the Project with the objectives of the Sector:

Over the years, the urban transport problem has grown from bad to worst in almost all the larger cities of the country. The problem has assumed alarming proportions in Karachi while the system in other major cities are also on the verge of collapse.

The seriousness of the problem is obvious from the recent happenings in Karachi and criticism and dis-satisfaction being voiced by the press and public alike concerning the management and operation of public and private transport, municipal authorities, Highway Departments, Transport Authorities, Traffic Police, etc.

Recognizing the gravity of the situation, the government has taken a number of steps to alleviate the difficulty. The proposed project is in line with the government efforts to find long lasting solution for the problem.

6. Capital Cost of Project:

(In Million Rupees)

Local Costs : Foreign Exchange Costs :

28.300 5.000

Total:

33.300

(In Million Rupees)

7. Annual Recurring Expenditure after Completion:

Local Costs :

5.510

Foreign Exchange Costs:

Total:

5.510

8. Objectives of the Project preferably in Quantitative Terms:

The major objectives of the Urban Transport Wing would be as follows:-

(1) To help in formulating an urban transport policy at the national level for which:

- (a) an uptodate Data Bank would be established
- (b) surveys would be conducted to collect field data
- (c) research Studies on various aspects of urban transportation would be undertaken.
- (2) To establish close liaison with other urban transport organizations/institutions within the country and also with the developed as well as developing countries.
- (3) To reduce dependence on foreign expertise in the field of urban transportation and to persuade various international agencies to either sponsor research in areas where sufficient expertise has been developed and to undertake research independently or in collaboration in areas of mutual interest.
- (4) To arrange maximum dissemination of research being undertaken by the Centre among various individuals and organization both at the local and international level.
- (5) To implement/execute experimental pilot projects on the basis of research carried out in the Centre to give the research efforts undertaken in the Centre the 'problem oriented outlook'.
- (6) To organize national and international seminars to discuss the problems facing the country in the field of urban transport and make suitable recommendations to the Government.
- (7) To arrange and organize training courses on various aspects of urban transportation planning, management and operations, etc.

PREPARED BY - M. Kazim Idris, Deputy Chief, NTRC - Abdul Majeed, Deputy Chief, NTRC

APPROVED BY M. Sadiq Swati, Chief, MTRC

PART B

PROJECT DESCRIPTION AND FINANCING

9. Location of Project: ISLAMABAD

10. Existing Facilities:

The urban transport planning, is a multi-disciplinary activity requiring coordinated services of planners, engineers, economists, system analysists, management specialists, etc.

There is however not a single institution embodying the requisite expertise in existance in the country. National Transport Research Centre has done some work in this area but keeping in view the dimension of the problem, it at best amount to scratching of the surface. As a result the country is largely dependent on foreign experts for advice regarding this highly sensitive area. This however has a number of disadvantages as briefly summarized below:

- (a) The foreign consultants are not in a position to fully appreciate the socio-political aspects of the problem and often propose measure which are totally out of line with realities.
- (b) The venture does not leave any residual expertise, as a result the dependence on foreign consultants is perpetual.
- (c) The costs are prohibitive.

During 1960s Master Plans were prepared for a number of cities in Pakistan. Since these Master Plans were prepared by the Physical Planners, only land use was adequately covered in these plans and transportation which is the other essential component was only cursorily dealt with. However over the years due to tremendous growth in urban transportation, the

transportation aspect has assumed great importance and now urgent steps were necessary to devise appropriate solutions for the growing urban transportation problem.

The fact of the matter is that there is as yet no comprehensive transport plan dealing with urban transport problem as a whole. The location of housing and business activities lay out of roads and transport network, operation of services, their organization, planning, pricing, etc. should be considered as an organic whole. The housing and business activities should be located so as to make minimum demand on transport, the lay out of network should be in line with the location of housing and business activities so that traffic circulation is possible without friction, the housing and population growth should be matched with increase in supply of transport services, etc.

The transport planning studies are so specialized that it is not possible for any of the local bodies to hire and maintain a multi-disciplinary team. Since there is no formal education in transport planning in any of the universities in Pakistan, very few personnel with necessary education and training are available in the country. The local engineering and consultancy firms also have no experience of transport planning studies. There is thus urgent need to develope institutional arrangement to provide the requisite expertise.

Scope of Work

Transport planning, though a multi-disciplinary activity,

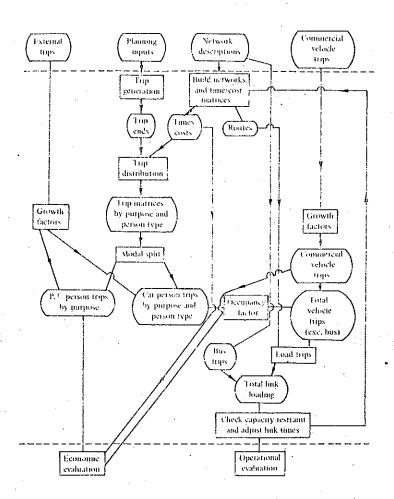
is a discipline in itself. There is a definite procedure for preparing a comprehensive transport plan. It requires a certain amount of socio-economic and transport data such as zoning of the area, population distribution, housing characteristics, business and service activities, other land uses, node-link capacities, vehicle ownership, travel times and costs, origindestination of person trips and goods by zone, mode, etc. the basis of such information, models of trip generation/attraction, distribution, modal split and assignment are built and stable relationships are discovered. Then on the basis of projected values of socio-economic and various land use factors, projections of future demand for each mode and link are made and compared with capacities; deficiencies are identified and plans and programmes drawn up. Effects of alternate plans and policies are evaluated and comprehensive plans and policies are formulated for implementation. A simplified version of an urban transport planning model is given in figure (i) for illustration.

Data Sources

The most critical impediment in the way of preparing comprehensive Urban Transport Plans is lack of proper data. The basic data concerning zoning, population, housing and other land uses is not maintained by the local bodies in the form which could be used for transport planning purposes.

The problem is compounded by the fact that various agencies concerned with different aspects of the urban transport operate independent of each other and without essential coordination. For

Fig.(i) URBAN TRANSPORT PLANNING MODEL



example, roads are built by Highway Departments or Local Bodies, e.g. Municipal Corporation, Cantonment Boards and Development Authorities; permits for buses and public service vehicles are granted by Transport Authorities; Taxes are imposed and collected by Excise and Taxation Departments. There is no systematic study or analysis of where and when to build a road, where and how many route permits are needed. Besides, there is complete lack of awareness and application of traffic engineering techniques. Decisions about location of housing and business activities are being made without proper consideration of their effect on transport. Efforts are being made by various departments concerned with the problem in their own way. However, such efforts are disjointed and lack any cohesion. Moreover, extremely costly solutions are being proposed worst confounding the confusion.

As the basic data required for proper transport planning is not maintained by local bodies, there is need for devising ways and means for acquiring, storage and retrieval of needed data.

The data concerning trip generation, attraction, network inventories, traffic volume, etc. is to be collected by means specific surveys based on house-hold, business establishments and road side interviews. In addition, information on traffic movements would have be collected by the agency specializing in transport planning studies.

11. Background

In the third meeting of Inter Ministerial Committee of NTRC held at Islamabad on 17th September, 1986 under the

Chairmanship of Minister for Planning and Development, the concern expressed by the Prime Minister regarding worsing transportation problem faced by all the major cities in the country also came under discussion. The Minister observed that the Karachi city transport problems were already being studied under the Karachi Special Development Programme with the assistance of the World Bank and suggested that NTRC should undertake similar studies for Lahore and Rawalpindi. It was however agreed that since Comprehensive Urban Transportation Planning was a costly undertaking, it would be uneconomic to confine the expert team to one city or place. The team should therefore carry out studies for various city one by one.

Accordingly, the Committee decided that:

- (a) Urban transport should be the main focus of attention in future research programmes of the Centre; and issues and problems should be properly examined and the research programme should be finalized expeditiously; and
- (b) NTRC may be given the staff and funds required to carry out comprehensive Urban Transport Study for Rawalpindi-Islamabad.

The matter was also discussed by the two Sub-Working Groups constituted by the Planning Commission on (a) Road Transport and (b) Transport Research in connection with 7th Five Year Plan.

Both the groups unanimously recommended that in order to overcome the problem of urban transportation, preferably a full-fledged institute of Urban Transport Studies should be set up which could undertake the requisite studies. However, a beginning should be made by setting up a division in the Centre.

The matter was also deliberated upon by the Research Advisory Committee of the Centre in its meeting held on 30.03.1987 in which it was decided that the setting up of Wing of Urban Transport Studies in the Centre would be the most desired course.

Accordingly a PC-I for the setting up of an Urban Transport Wing in the National Transport Research Centre was prepared at an estimated cost of Rs. 6.459 million spread over a period of one year. Although the initial project cost was within the sanctioning competence of the Planning Commission, it was considered desirable that since the subject was of direct concern to the provinces, their views should also be solicited and irrespective of the sanctioning powers the scheme should be placed before the CDWP.

The PC-I was discussed with the Ministry of Communications and Provincial Government representatives from the Punjab and from Sind, NWFP and Baluchistan in two separate meeting held on 4th May, 1987 and 14th July, 1987 respectively in which the following unanimous consensus emerged:-

- (1) The scheme was unanimously endorsed.
- (2) The time frame for the scheme should be six years instead of the proposed one year after which it may be merged with the main programme for all the (Wings) Divisions of NTRC.
- (3) Notwithstanding the fact that the scheme falls within the sanctioning competence of the DDWP, it would be processed through the CDWP on the grounds that it is of great concern to all the Provincial Governments.
- (4) Provincial Urban Development Authorities should act as local contact point and efforts should be made to

develop proper institutional arrangements within these authorities to act as counter part to the proposed federal institute.

Minutes of the meetings may be seen in Annex A.1, and A.2 respectively.

The proposal has also been considered by the 4th Inter Ministerial Committee meeting of NTRC held under the chairmanship of Dr. Mahbub ul Haq, Federal Minister for Commerce, Planning and Development on 24th September, 1987 and while the scheme was endorsed it was decided that the provinces should be fully associated and the provincial governments should bear at least 20% of the cost of urban transport studies to be undertaken by the Centre. Relevant extracts from the minutes of the meeting may kindly be seen at Annex-A.3.

The PC-I for Urban Transport Wing was accordingly prepared amounting to Rs. 29.950 million and duly incorporating the Work Plan for the preparation of Transportation Plans for Rawalpindi/Islamabad and Peshawar. The Plan for Rawalpindi/ Islamabad was discussed in detail with the CDA and other concerned agencies (Minutes at Annex-A.4). The CDA while fully endorsing the Work Plan however confirmed their participation in 'kind' by deputing one or two of their officers on the project (Annex-A.5). The PC-I was formally submitted to the DA Section on 9th March, 1988 for its further processing However subsequently, it was amalgamated through the CDWP. in the PC-II of NTRC for Phase-III (1988-93) amounting to Rs. 89.550 million and was submitted to the CDWP for consideration on 17th April, 1988. Before approving the Phase-III Programme of NTRC for Ps. 50 million in its meeting on 10th August, 1988, CDWP decided on 2nd May, 1988 to set up an Evaluation Committee to review the work done by the Centre and examine its future programme.

While the Evaluation Committee fully endorsed the Programme of Phase-III of NTRC, the matter regarding Urban Transport Studies came under discussion in the CDWP meeting on 10th August, 1988 and it was felt that since the subject of urban transportation was of a highly specialized nature, it would be necessary to prepare a detailed PC-I separately and therefore the provision made for Urban Transport Studies in the Phase-III programme of NTRC was deleted. Minutes of the CDWP meeting held on 10th August, 1988 may kindly be seen at Annex-A.6.

The present PC-I has been prepared accordingly and was considered in the 5th Inter Ministerial Committee (IMC) Meeting of NTRC held under the chairmanship of the Deputy Chairman, Planning Commission on 23.11.1988. The Committee decided that the PC-I should be processed for approval through the CDWP. Minutes of the 5th IMC meeting may kindly be seen at Annex-A.7.

Proposal

In accordance with the preceding decisions, a proposal has now been formulated to set up an Urban Transport Wing in NTRC. The Wing would gather together the experts in the field of transportation planning, develop expertise in this field, undertake studies in all major cities, impart training to the staff of local bodies and other agencies concerned and maintain a data bank of the data collected for future use. The Wing would undertake/ update studies in main cities at regular intervals and cover new cities growing in size.

Work Schedule

Although the Centre has already received requests from several cities to assist them in transport planning, the Wing would undertake urban transport planning studies in Rawalpindi/Islamabad, Peshawar, Lahore, Quetta and other larger cities in order of priority.

It would not be out of place to mention here that in Japan, the Ministry of Construction undertake urban transport planning studies in 70 cities every year including studies based on Home Interview Surveys in 30 large cities and urban Origin Destination

surveys in 40 smaller cities a year. The Urban Transport Planning Studies in main cities are updated every 10 years.

Functions of the Urban Transport Wing

The functional organization of the proposed Urban

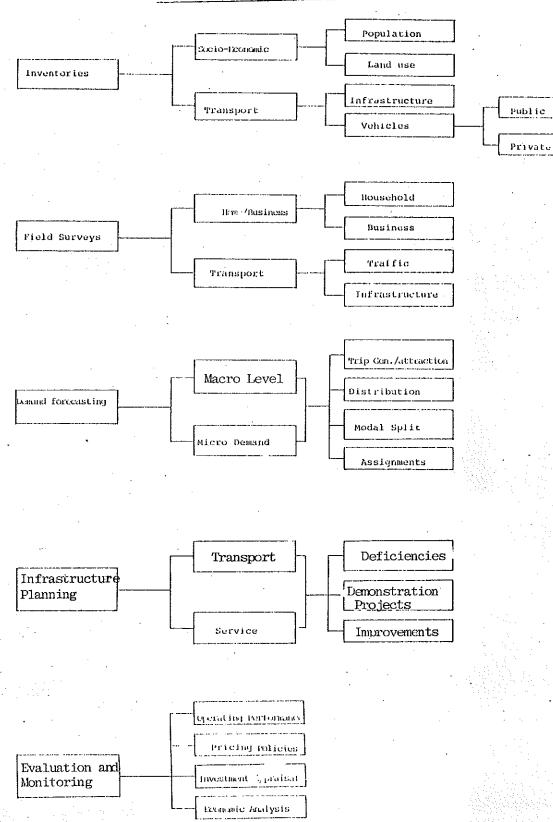
Transport Wing is shown in figure (ii). The areas selected are those which are absolute minimum for any meaningful attempt at studying the problem properly and are based on the socio-economic conditions prevailing in the country. The salient features of the functional organization are explained below:

Inventories: The starting point of urban transport planning studies is to prepare inventories of socioeconomic and transport related factors. The socioeconomic factors include population and land use characteristics. The population characteristics include family composition, occupation, education, income distribution, etc. The land use characteristics include area used for housing, business (retail and whole sale), manufacturing, services, etc. The inventories relating to transport include node and link data, their capacities, vehicle ownership - number of vehicles, public service and private, their operational performance, utilization, etc.

The inventories should ideally be prepared by local bodies as a continuous process. In view of lack of resources, experience and know how with local bodies, the Centre would assist them in building and maintaining essential inventories in a form suitable for transport planning studies.

field Surveys: The inventories are supplemented by field surveys which fall into two main categories; one are based on house hold and business establishments and the other concern traffic volume and infrastructure. The household surveys would provide information on family composition, employment, education, vehicle ownership trips performed during a specified period by purpose, mode etc. This information would be the central point of the planning process. Similarly surveys of commercial establishments would provide information on type of activity, size, employment, trip generation, etc. Trips would be related to various characteristics of the household. These surveys would be carried out on sampling basis.

Fig.(ii) FUNCTIONAL ORGANIZATION OF URBAN TRANSPORT WING



- Demand Forecasting: The data available from (c) inventories and surveys would provide inputs for demand forecasting which would be made at two levels macro and micro. At macro level the forecasts will give overall magnitude of demand which would serve as a cross check for micro demand models. At the micro level, the demand forecasts would be made for each mode and link by means of usual four step transport planning model, trip generation/attraction, distribution, modal-split and assignment. The forecasts for each mode and link would be compared with capacities to identify deficiencies and bottlenecks for formulating policies, plans, programmes and projects for improvement.
- Infrastructure Planning: The identification of deficiencies and bottlenecks would call for preparation of detailed plans, programmes and review of policies to remove bottlenecks and deficiencies. There would be alternate ways of overcoming the deficiencies. The relative costs and benefits of such alternative would be evaluated and the most optimum solutions would be selected for detailed design and implementation. Such plans would include improvement and widening of existing facilities, creation of new facilities, modification of services, changes in policies conerning pricing, investment, etc.

In addition, there would be a number of traffic engineering plans concerning circulation of traffic in the city like signalling, round abouts, one way traffic, parking, regulation, etc. Detailed traffic engineering plans would be prepared and their implementation observed.

(e) Evaluation: In addition to planning and design of infrastructure and services, there would be need for evaluation of alternatives, economic analysis of investment projects, review of performance of public and private sector enterprise, cost benefit analysis of various location and land use options. In addition there would be review and analysis of policies and programmes concerning regulation of public service vehicles, pricing of services and infrastructure, investment, coordination, etc.

Staff Requirements

The staff required for the Urban Transport Wing will consist of a multi-disciplinary team of planners, engineers, economists, system analysts, management specialists, etc. To

start with it is proposed to have one post of Chief, 5 posts of Deputy Chiefs, 5 posts of Assistant Chiefs and 10 posts of Research Officers and their supporting staff as follows:-

	· · · · · · · · · · · · · · · · · · ·		•	
	Name of Post	BPS		<u>No</u>
	Chief	20		1
	Deputy Chief	19		5
	Assistant Chief	18		5
	Research Officer	17	•	10
	Superintendent	16		1
	Stenographer	15		6
·	Stenotypist	12		10
	Assistant	. 11		1
	Draughtsman	. 11		1
	L.D.C.	· 5		2
\ \	Naib Qasid	1	_	15
			Total : _	57

The professional staff would have specialized qualifications in the following disciplines:

- 1. Transport Planning
- 2. Transport Economics
- 3. Urban Planning
- 4. Systems Analysis
- 5. Statistics

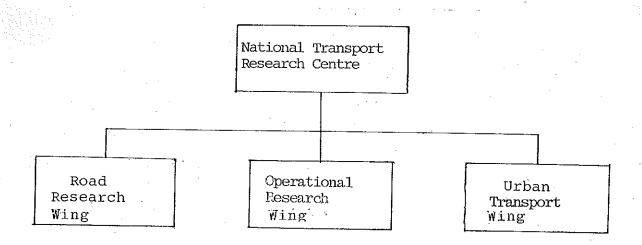
- 6. Traffic Engineering
- 7. Operational Research
 - 8. Highway Engineering
- 9. Urban Geography
- 10. Other related subjects

Deputy Chiefs and Assistant Chiefs would have the experience required under the rules for officers in the respective grades and efforts would be made to hire experts in specialized fields on contract.

Administrative Organization

The proposed unit would be part of the National Transport
Research Centre alongwith Road Research Wing. The
existing organization has been re-named as Operations
Research Wing. The administrative organization of the Centre
may be seen in figure (iii).

Fig. (iii) Administrative Organization



The detailed organizational chart may be seen in Fig.(iv).

12. Date when capital expenditure estimates were prepared :

October, 1988

13. Cost Estimates:

The cost estimates have been prepared for a period of 48 months w.e.f. 1st July, 1989 to 30th June, 1993. Thereafter the

requirements would be incorporated in the work programme of the Centre, together with the Road Research Wing. The initial cost of the scheme is estimated at Rs. 33.300 million including FEC of Rs. 5.00 million which has been kept as a token provision for Technical Assistance keeping in view the growing interest of Aid-giving agencies like the World Bank Asian Development Bank (ADB), Japan International Cooperative Agency (JICA), the Overseas Economic Cooperative Fund (OECF), etc. The overall summary is as follows:

		the second secon			
S. No.	<u>I t e m</u>	Local	F.E.C.	(Rupees) <u>Total</u>	Remarks
1.	SALARY AND FIELD SURVEYS				1 /
	(a) Regular Staff	9,798,100	- ;	9,798,100	Annex-B
-	(b) Survey Staff	2,452,080	-	2,452,080	_ \" /
	(c) Field Surveys	5,500,000		5,500,000	n\/
	Sub-Total (1)	17,750,180		17,750,180	A = A
2.	Other Expenditure	3,288,000	_	3,288,000	Annex-C
3.	Durable Goods	1,713,900	_	1,713,900	Annex-D
4.	Office Building	4,200,000	-	4,200,000	Annex-E
	Sub-Total (2-4)	9,201,900		9,201,900	
	Sub-Total (1-4)	26,952,080		26,952,080	
5.	Contingencies @ 5%	1,347,604	<u>.</u> .	1,347,604	
6.	Technical Assistance		5,000,000	5,000,000	
	Total :-	28,299,684	5,000,000	33,299,684	
r	The detailed statement with rear		1		

The detailed statement with year-wise phasing may be seen in Annex-'G' It may be pointed out that the 5-acre plot of land already acquired by the Centre from the CDA in Sector H-8 would meet the land requirement and therefore no separate provision for land acquisition has been made.

14. Basis of Cost Estimates:

Existing Market Rates.

15. Annual Recurring Expenditure after Completion:

The annual recurring expenditure after completion of the project is estimated at Rs. 5.510 million as per summary given below:-

: 20 :

Annual Recurring Expenditure after completion (contd.)

				(Rs.)
S. No.	Item	Local	F.E.C.	Total	Remarks
1.		3	4.	5	6.
1.	Research Staff	1,817,495	_	1,817,495	Annex-'H'
2.	Ancillary Staff	725,144	-	725,144	Annex-'I'
3.	Survey Staff	644,340	-	644,340	Annex-'J'
4.	Field Surveys	1,500,000	-	1,500,000	L.S.
5.	Transport (PCL)	100,000	-	100,000	L.S.
6.	Communications	100,000	-	100,000	L.S.
7.	Utilities	60,000	-	60,000	L.S.
8.	Stationery	50,000	-	50,000	L.S.
5.	Printing	50,000	· <u> </u>	50,000	L.S.
10.	Books, Journal and News Papers, etc.	25,000	 .	25,000	L.S.
11.	Contingent Staff	25,000	-	25,000	L.S.
12.	Uniform and Liveries	10,000	-	10,000	L.S.
13.	Building Maintenance	66,000		66,000	L.S.
14.	Other Expenditure/ Maintenance of Equipment	75,000		75,000	L.S.
	Sub-Total (1 - 13) :-	5,247,979		5,247,979	
15.	Contingencies @ 5%	262,399		262,399	
·	Total :-	5,510,378		5,510,378	

⁻ L.S. : Lumpsum

16. Unit Costs for each category of service or output:

- Not Applicable —
- 17. In case of Industrial research, if the processes developed are to be leased to commercial firms give cash flow statement inflow and outflow) for the next five years;
 - _ Not Applicable -

6. Technical Assistance

(FEC)

7. Contingencies

Total:-

18. Annual Phasing of Physical Work and Financial requirements for the project:

for the project:					
I. Physical Work:			(I	Percentage)	
S. No. Description 2.	1989-90	1990-91 4.		1992 - 93 6.	Remarks_
 Field Surveys Annual Cumulative Durable Goods Office Building Annual 	19 19 100 50	27 46 - 50	27 73 -	27 100 -	
- Cumulative 50 100					
S. No. Description 2.	1989-90	1990-9	1 1991-9	1992–93	Total (1989-93)
 Salary Regular Staff Field Staff Field Surveys Durable Goods Office Building Other Expenditure 	2.350 0.58 1.00 1.71 2.10 2.10	2 0.60 0 1.50 4 - 0 2.10	03 0.62 00 1.50 -	0.644 00 1.500 - -	9.798 2.452 5.500 1.714 4.200 3.288
0. 002200 1		- 100	0 15	00 1.500	5.000

5.000

1.348

33.300

1,500

0.262

7,010

1.500

0.258

6.923

1.000

0.385

9.089

1.000

0.442

10.277

PART 'C'

PROJECT REQUIREMENTS

For Execution for Operation

19.	(a)	Manpower:	Man-month	Number
		(1) Professional & Technical	1,008	21
·		(2) Administrative, Executive and managerial	- -	
		(3) Administration Staff	1,008	21
		(4) Sales	-	-
		(5) Service	720	15
		(6) Skilled (Survey staff)	1,200	25
		(7) Semi Skilled	-	_
,		(8) Unskilled		
		(9) Others	-	· -
		(10) Foreign Consultants.	i i Talin sa a a si Marana katan inga	
	(b)	Likely shortage of manpower by occupation.		•••
	(c)	Steps to be taken to assure availability of manpower	· -	p-no
	(d)	Approximate number of persons required to be trained per year (Locally and abroad) and the kind of skills to be learnt	-	-
	(e)	Give total capital outlay.		

20. Physical and other facilities required for Project:

S. No.	Item	Total	To be protein	rovided from ject itself	To be provide the Public 1	led from utility
(a)	Power Supply			_	Yes	÷ .
(b)	Water & other utilities				Yes	
(c)	Education facilities by type	\$		-	-	
(d)	Housing by type		÷			
(e) (f)	Others Cffice building	14,000	sq.ft.	- Yes	- -	

21. Materials, Supplies and Equipment requirement:

A.I. Minimum total requirements for execution. — To be completed only for major items costing more than 10% of the total cost.

	,			Local			Foreign		Already
Ι	tem	Unit	Oty.	Rate per)Unit(Rs.)	Cost	Qty.	Rate per Unit	Cost	avail.with agency
		,	(bq.re	/ UIIIC (115.)	IND . WILL.		OTLLC		agarcy
_									
1.	Materials :								
•	(a) Building	Sq.Ft 14	1,000	300	4.20	0 –		_	
	(b)								
	(c)	-							
	(d)								
	(e)								•
2.	Spare and Supp	Jie .							
۷.		4162 •							
	(a)		}						
	(b)								
	(c)		1			-			•
	(d)		ļ						
	(e)		[
	(f)		1						
	(g)								
3.	Equipment and	Machinery	<u>.</u> .						
	(a)								-
	(b)		1						
	(c)								
	(b)			:					
	(e)								
	(6)						-		

A.II. <u>Material</u>: Spares and Supplies and equipment for Operation of Project:

Un	it	Qty.	Local Rate per Unit	Cost	t Qty.	Foreign Rate per Unit	Cost
1.	Material :			·	·		
	(a)						
	(b)			N.A.			
	(c _.)						
2.	Supplies and	Spares	-				
	(a)		•				
	(b)	·				•	. •

22. In the case of imported material and equipment for execution, indicate:

- (a) Justification for imports
- (b) Proposed source/sources of supply.

N.A.

PART - 'D'

Subject to approval of the PC-I and sanction of staff by the F.A. Wing by 30th June, 1989, the tentative Work Plan would be as follows:-

	July 1989 to December 1989	-	Recruitment of Staff and Completion of preliminary arrangements such as hiring of office building, etc.
-	January, 1990 to December 1991		Preparation of Transportation Plan for Rawalpindi/Islamabad
-	January 1991 to June, 1993	-	Preparation of Transportation Plan for Peshawar

A detailed programme of studies for the two cities

namely Rawalpindi - Islamabad (January, 1990 to December, 1991)

and Peshawar (January 1991 to June, 1993) has been prepared

and would comprise a number of short-term and long-term measures.

The salient features are as follows:-

	·	Man -	Man - Months			
A. <u>S</u>	SHORT TERM	Rwp/Is1_;	Pesh ;	Total		
1.	Accident Black Spots Improvement	. 47	31	78		
2.	Intersection Improvements:					
	(a) Geometric Improvement	32	26	58		
	(b) Signal Synchronization	32	26	58		
3.	Link Improvement:					
	(a) Geometric Improvement	47	31	78		
	(b) Road Sign and Marking	47	31	78		
4.	Public Service Facilities:					
	(a) Demand/Supply Assessment	84	52	136		
	·					

- Bus
- Mini Bus
- Taxis
- Rickshaws
- Others

			Man - Months		
			Rwp/Isl	Pesh	Total
	(b) Storage Facilities		63	31	94
·	Bus StopsBus BaysTaxi StandRickshaw StandOther		,		
5.	Parking Facilities:		63	32	95
	(a) Demand/Supply Assessme	ent	•		·
	(b) Location of Parking				
	(c) Parking Controls	•			•
6.	Pedestrian Facilities:		24	24	48
	(a) Footpath Improvements				
	(b) Guardails			•	
	(c) Pedestrian Bridges				
	(d) Others				
7.	Other Low Cost Measures		24	24	48
	(a) Bus Lanes				
	(c) One-way Street				,
	(d) Turn Prohibition				
	(e) Channelization, etc.				
	•				
в. <u>І</u>	LONG TERM		e		
1.	Land Use		95	78	173
2.	O-D Survey		79	63	142
3.	Trip Generation		79	63	142
4.	Travel Characteristics		79	63	142
5.	System Inventories		95	78	173
6.	Data Bank		95	78	173
7.	Design Standards		63	47	110
8.	Others		32	32	64
	·	Total:	1080	810	1890

The programme has been designed keeping in view the objective of completing the actual implementation of various elements of the programme. The man-months indicated are

very tentative and subject to variation at the stage of detailed planning. It is proposed to raise 5 teams under each Deputy Chief which would complete the task in Rawalpindi-Islamabad over the period December, 1989 to December, 1991 and repeat the study for Peshawar from January 1992 to June, 1993.

The Bar-Chart depiciting the time frame and sequential order for each activity is annexed (Annex-'K' and 'L').

ANNEXURES

URBAN TRANSPORT WING IN NTRC

MINUTES OF THE MEETING FELD WITH THE MINISTRY OF COMMUNICATIONS AND GOVERNMENT OF PUNJAB ON 4TH MAY, 1987 AT ISLAMABAD

A meeting was held under the chairmanship of Mr. M. Sadiq Swati, Chief National Transport Research Centre in his office on 4th May, 1987 at 10:00 A.M. to discuss the PC-I regarding setting up of the Urban Transport Division in NTRC. List of the participants is annexed. Brief account of the proceedings is as follows:-

Chief NTRC explaining the background highlighted the deep concern expressed by the Prime Minister over the widespread public dis-satisfaction with urban transportation specially in larger cities in the country. He stated that the problem can only be overcome by dealing with it scientifically. However, unfortunately no solid work has so far been done and there was no basic data available to carry out detailed Urban Transportation Studies. Quoting examples from USA, he added that by their very nature urban transportation studies were not only extremely capital intensive but also very time consuming and required concerted efforts on a continuing basis. In this connection he referred to the KSDP transport related components for which a team of 5 consultants were engaged for a period of about 12-18 months to work on only selected aspects of urban transportation in Karachi. He pointed out that the present practice of hiring foreign consultants not only involved prohibitive costs, it also did not help in evolving an optimum solution, because of their ignorance of local problems, and at the same time left no residual expertise for follow-up action.

He added that the matter, among various other forums, was also discussed by the two Sub-Working Groups constituted by the Planning Commission on (a) Road Transport and (b) Transport Research in connection with the 7th Five Year Plan and both the Sub-Groups unanimously recommended the setting up of an Institute of Urban Transportation. The main Group on Research has also fully endorsed the recommendation of the Sub-Working Group. He informed that it was on the advice of the Research Advisory Committee of NTRC that a beginning has been proposed by setting it up as a division in the Centre. Accordingly, the PC-I of the scheme has been prepared. He clarified that only a very nucleus set up has been proposed as NTRC would provide the requisite back-up support. Also the PC-I was limited to only one year and thereafter it would be amalgamated under the main programme of the Centre. Chief NTRC while referring to the 'demand' for such an institute stated that the increasing number of requests being received almost regularly from cities like Peshawar, Lahore, Rawalpindi, Multan, Muzaffarabad, etc. for help in solving their traffic/ transport problems fully established the need for the setting up of such an institute.

Chief T&C Section observed that although a number of studies have been conducted in major urban Centres from time to time, these have been dis-organized resulting into no real headway for finding a permanent solution of the problem. Also for almost all these studies, Federal Government has been requested to provide the funds. Referring to the KSDP World Bank financed studies/projects, he mentioned that all the 5 transport related components were being treated separately and were being conducted by different agencies which besides posing serious coordination

problems has resulted in overlaps. He observed that the present PC-I was conservative but this may be on account of the back-up support that would be provided by the NTRC itself. He felt the need for establishing contact points at the Provincial level. He pointed out that the reports prepared by one provincial agency were seldom made available to other provincial agencies and there was no coordination among agencies performing similar functions. While fully supporting the need for setting up of a federal agency to deal with the subject in the most cost effective and coordinated manner, he observed that NTRC being a federal agency has been called for help by various provincial departments/agencies and have been giving the technical advice with no problems of coordination.

Chief NTRC explained that the reason for conservative estimates was on account of the back-up support which would be provided by the NTRC. He stated that only the hard core team has been provided which has tremendously reduced the cost without sacrificing the overall objectives. He clarified that the Provinces would be fully associated.

The representative of the Government of Punjab stated that the Provincial Government be fully associated in the whole planning process so that whatever is planned gets ultimately implemented. He stated that there was no specific mention of the provincial Transport Departments in the PC-I.

Chief NTRC explained that since the Provincial Government was represented by the Planning and Development Department in the CDWP, routing has been done through them for overall coordination. He further explained that through the P. wearch Coordination Committee of NTRC under the

chairmanship of the Secretary, Ministry of Communications with representation from all the concerned provincial departments, full coordination was ensured besides clearly identifying the areas of research. He explained that the specific proposals as per guidance of the Research Coordination Committee were prepared and technically secruitinized by the Research Advisory Committee of the Centre after which these were submitted to the Cost Appraisal Committee for financial approval.

The representative of the Punjab Government while fully endorsing the proposal referred to financing as a major problem for the provinces and proposed that similar Cells be set up at the provinces with federal financing. Chief NTRC explained that considering the costs, it would be practically impossible to go outrightly for such an arrangement. He stated that it was precisely on account of the lack of finances with the Provinces that the present proposal has been formulated which can handle the job in a much more cost effective manner for the benefit of all the provinces. Besides it would ensure the gradual development of the requisite expertise to handle such specialized jobs.

Chief T&C Section proposed that an Urban Transport Coordination Sub-Committee be get up with representation from all the concerned provincial Transport Departments and representatives from major cities including Mayors so that they could get together and identify the problematic areas which could be of great help in directing the research efforts. This was greatly appreciated by all the concerned and it was agreed that an Urban Transport Coordination Sub-Committee be set up under the chairmanship of Chief T&C Section with representation from all the concerned agencies.

To the clarification from the Joint Secretary,
Ministry of Communications regarding the inclusion of the
mass transit system in the scope of the work, Chief NTRC
replied in the affirmative. The Joint Secretary, Ministry
of Communications expressed the view that it was a commendable
project and should be implemented.

The matter regarding the processing of the scheme and its time span also came under discussion and Chief NTRC explained that presently the scheme was within the sanctioning competence of the DDWP but it involved an area which was of direct relevance to the Provinces and referred to the observation of the Secretary, Planning and Development Division who had observed that irrespective of sanctioning powers, the scheme should be placed before the CDWP.

The representative of the Government of Punjab stated that such schemes which cover a wider area of interest are usually considered by the higher forums although they may be within the sanctioning competence of the lower forums.

Chief T&C Section observed that the period of the project should be at least 2 years. Chief NTRC explained the rationale and stated that the programme would be incorporated in the main programme of NTRC for 7th Plan. However, it was considered desirable and more practical that the period of the scheme should be kept as 6 years instead of one year and once the Division has been fully established, its programme can then be amalgamated with the main programme of the NTRC.

CONSENSUS:

As a result of the detailed deliberations the following

consensus emerged:-

- (1) The scheme was unanimously endorsed.
- (2) The time frame for the scheme should be six years instead of the proposed one year after which it may be merged with the main programme for all the Divisions of NTRC.
- (3) Notwithstanding the fact that the scheme falls within the sanctioning competence of the DDWP, it would be processed through the CDWP on the grounds that it is of great concern to all the Provincial Governments.
- (4) An Urban Transport Coordination Sub-Committee be set up under the chairmanship of the Chief, Transport and Communication Section, Planning Commission with representation from all the concerned Provincial Departments, Mayors of major cities, etc. for identifying the problematic areas and corrective actions required for improving urban transport situation in the country.

LIST OF PARTICIPANTS

- (1) Mr. M. Sadiq Swati, Chief NTRC, Planning Commission, Islamabad.
- (2) Mr. Muhammad Zafarullah Khan, Joint Secretary (Planning), Ministry of Communications, Islamabad.
- (3) Mr. Malik Muhammad Saeed Khan, Chief(T&C),
 Planning Commission,
 Islamabad.
- (4) Mr. Sibtain Fazal Halim,
 Additional Secretary,
 Planning & Development Department,
 Government of Punjab,
 Lahore.
- (5) Mr. Abdul Majeed,
 Deputy Chief NTRC,
 Planning Commission,
 Islamabad.
- (6) Mr. M. Kazim Idris,
 Deputy Chief NTRC,
 Planning Commission,
 Islamabad.



URBAN TRANSPORT WING IN N.T.R.C.

MINUTES OF THE MEETING HELD WITH PROVINCIAL GOVTS. OF SIND, NWFP AND BALUCHISTAN ON 14TH JULY, 1987

A meeting was held under the chairmanship of Mr. M. Sadiq Swati, Chief NTRC in his office on 14th July, 1987 at 10:00 A.M. to discuss the PC-I regarding the setting up of an Urban Transport Division in NTRC with the Provincial representatives from Sind, NWFP and Baluchistan. List of participants is annexed.

- Chief NTRC explained the background and the purpose of the meeting. He stated that since the provincial representatives from Sind, NWFP and Baluchistan could not attend the meeting held on 4th May, 1987, the present meeting was called to solicit their views on the subject scheme which was of direct concern and relevance to all the provinces.
- the Prime Minster over the widespread public dis-satisfaction with urban transportation specially in larger cities in the country. He stated that the problem can only be overcome by dealing with it scientifically. However, unfortunately no solid work in this field has so far been done and there was no basic data available to carry out detailed Urban Transportation Studies. He added that the Mater Plans prepared by most of the Development Authorities in the 1960s were confined to land use and socio-economic aspects only with little mention of the transportation aspect which over the years has assumed a very important position specially in the urban context.
- Quoting examples from USA, UK, he added that by their very nature urban transportation studies were not only extremely capital intensive but also very time consuming and required concerted efforts on a continuing basis. He also referred to

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teams of consultants were engaged for a period of about 12-18 months to work on only a few selected aspects of urban transportation in Karachi. He pointed out that due to complexity of urban transportation, JICA had not agreed to its inclusion in the TOR of the National Transport Plan Study sponsored by them.

He added that the present practice of hiring foreign consultants not only involved prohibitive costs, it also did not help in evolving an optimum solution, because of their ignorance of local problems, and at the same time left no residual expertise for follow-up action.

Chief NTRC explained further that among various other forums the matter was also discussed by the two Sub-Working Groups constituted by the Planning Commission on (a) Road Transport and (b) Transport Research in connection with the 7th Five Year Plan and both the Sub-Groups unanimously recommended the setting up of an Institute of Urban Transportation. The main Group on Research has also fully endorsed the recommendation of the Sub-Working Group. He informed that it was on the advice of the Research Advisory Committee of NTRC that a beginning has been proposed by setting it up as a division in the Centre. Accordingly, the PC-I of the scheme has been prepared. He clarified that only a very nucleus set up has been proposed as NTNC would provide the requisite back-up support. Also the PC-I was initially limited to only one year but on the advice of the participants of the 4th May, 1987 meeting it would now be expanded over a 6-year period. Chief NTRC while referring to the 'demand' for such an institute stated that the increasing number of requests being received almost regularly from cities like Peshawar, Lahore, Rawalpindi, Multan, Muzaffarabad, etc. for help in solving their traffic/transport prob. as fully established the need for the setting up of such an in titute.

The views expressed by the provincial representatives are described below:-

(1) Government of Sind

The provincial representative fully endorsed the setting up of an Urban Transport Division in NTRC and stated that it was high time that informed decisions were made based on factual information. He stated that policy decisions based on research would also help in removing the 'Shyness' on the part of the implementation/enforcement agencies as they would have the requisite confidence to go ahead. He said that at present the main problem related to lack of an institutional arrangement for formulating a policy package to be followed/implemented by all the concerned. Regarding the time frame for the project he endorsed that the project should be spread over a period of 6 yeras after which it may be amalgamated with the main project. He stated that a number of agencies like KDA, KMC, etc. were operating in Karachi and similar cells may have to be set up at the provincial level. It was however felt that these cells should preferably be located in the Transport Department since their basic work would be policy oriented based on actual research. However, there was a need to take into account the fact that while the manpower in the Development Agencies worked on a permanent basis with them, manpower in other departments was subject to frequent transfers.

(2) Government of Baluchistan

The representative of the Government of Baluchistan stated that at present there was no publicly operated urban transport system in the Province. Leaving the urban transport entirely at the mercy of the private sector was not conducive even from the law and order situation point of view. Also in some cases it has given rise to tribal rivalries.

Chief NTRC explained that the basic objective of the Studies Unit would be to identify and quantify the weaknesses and strengths in the existing set up and suggest remedial actions based on actual research and this approach would evoke the requisite

confidence among the decision-makers to make timely decisions. At present because of the lack of factual information, the element of subjectivity was too prominent and often led to wrong decisions. He stated that work on all modes of urban transport (including the walking mode) would be covered in detail by the proposed institute.

The scheme was fully endorsed by the Provincial representative and it was also agreed that time frame should be six years.

(3) . Government of NWFP

The Provincial representative stated that at present as regards urban transportation there was no institutional arrangement from whom one can seek the expert opinion. He observed that although there were a number of agencies in the urban set up, these lacked coordination. Also foreign consultants were hired but they have not been of any real help. He expressed confidence in the work done by the Centre and stated that NTRC has established itself as a pioneer in various fields of transport planning/engineering.

To a querry regarding the relationship of the proposed Urban Transport Studies Unit with the NTRC, Chief NTRC explained that the proposed Unit would be part of the National Transport Research Centre alongwith the Road Research Division, with the existing organization re-named as the Operations Research Division. He added that the process of expertise development is gradual and it would be necessary to have focal points at the Provincial Level where manpower could be deputed to work in these cells on a permanent basis.

While fully endorsing the proposal, he added that NTRC should assume the 'teaching role' and build up expertise in the Provinces where there was the real need to ensure implementation and there should be 4 Provincial cells, one each in every Province. He suggested that the Provincial Urban Development Authorities should be closely associated with the proposed institution.

A copy of the minutes of the meeting held on 4th May, 1987 was provided to the Provincial Representatives (Sind and Baluchistan) and Chief stated that the proposal was fully endorsed by the Punjab Government who desired that similar cells be set up at the provinces with federal financing. He explained that although it may not be practically viable to go outrightly for a full fledged arrangement, but nevertheless there may be an urgent need to set up appropriate contact points at the provincial level by the respective Provinces so that expertise could be gradually built up to handle the specialized job of urban transport planning.

CONSENSUS As a result of detailed deliberations, the following consensus emerged :-

- (1) The scheme was unanimously endorsed.
- (2) The time frame for the scheme should be six years instead of the proposal one year after which it may be merged which it may be merged of NTRC.
- (3) Provincial Urban Development Authorities should act as local contact point and efforts should be made to develop proper institutional arrangements within these authorities to act as counter part to the proposed federal institute.

LIST OF PARTICIPANTS

- (1) Mr. M. Sadiq Swati, Chief NTRC, Planning Commission, Inlamabad
- (2) Mr. Muhammad Yousaf,
 Secretary Transport,
 Government of Baluchistan,
 Quetta
- (3) Mr. M. Amir Ansari,
 Secretary Transport,
 Frovincial Transport Authority,
 Government of Sind,
 Karachi
- (4) Mr. Abdul Jalil Moghal,
 Additional Secretary,
 Planning & Development Department,
 Government of NWFP,
 Peshawar
- (5) Lr. Abdul Majid,
 Deputy Chief NTRC,
 Planning Commission,
 Islamabad
- (6) Mr. M. Kazim Idris, Deputy Chief NTRC, Planning Commission, Islamabad

4th Meeting of the Inter - Ministerial Committee (IMC) of NTRC held under the Chairmanship of Dr. Mahbub-ul-Haq, Federal Minister for Planning Development and Commerce on 24.9.87 at Islamabad

Relevant Extracts

Item No. 9: Urban Transport Wing in N.T.R.C.

Chief NTRC explained that as a follow up of the decisions taken in the 3rd Inter-Ministerial Committee meeting of NTRC regarding the laying of more emphasis on the urban transport problems in the country, NTRC undertook a number of Urban Transport Studies. Since the subject of urban transportation is assuming great importance, the matter was also considered by the Working Group on Science and Technology, the two Sub-Groups on Road Transport and Transport Research as well as by the Research Advisory Committee of the Centre and it was unanimously recommended by all of them that the fast deteriorating urban transport situation called for a proper institutional arrangement for dealing with the problem and suggested an Urban Transport Division may be set up with NTRC. ingly, NTRC drew up a PC-I at an estimated cost of Rs. 6.5 million spread over a period of one year. The matter was also discussed with the Provincial Governments who have urged that the project should be at least six years duration and have agreed to provide maximum possible support in terms of office accommodation and local staff. Accordingly, the cost was now estimated to be about Rs. 30 million. To the observation of the Additional Secretary (Finance) that the urban transport work may be gradually taken up, Chief NTRC explained that the subject of urban transport requires a multi-disciplinary team of engineers, architects, planners, economists, Systems Analyst and management experts, and it would not be possible to do the needful by merely designating an officer of NTRC to work on it.

The Chairman observed that the amount of Rs. 30 million was very reasonable considering the importance which the subject of urban transportation demands. He however added that urban transportation was one of the major thrust areas, the province should be fully associated and the matter regarding part financing of the work undertaken for the provinces should also be looked into.

DECISION:

The provincial governments should bear at least 20% of the cost of the urban transport studies to be undertaken by the Centre.

URBAN TRANSPORT Wing IN N.T.R.C.

MINUTES OF THE MEETING HELD WITH C.D.A, ADMINISTRATOR

ISLAMABAD CAPITAL TERRITORY AND PROVINCIAL TRANSPORT AUTHORITY

ON 15TH MARCH, 1988

A meeting was held in the office of Chief NTRC on 15th March, 1988 at 09:00 a.m. to discuss the Work Plan for undertaking the preparation of detailed Transportation Plan for Rawalpindi and Islamabad. The list of participants is annexed. Brief account of the proceedings is as follows:

Chief NTRC explaining the background highlighted the deep concern expressed by the Prime Minister over the wide public dis-satisfaction with urban transportation specially in larger cities in the country. He stated that the problem can only be overcome by dealing with it scientifically. However, unfortunately no solid work has so far been done and there was no basic data available to carry out detailed Urban Transportation Studies. Quoting examples from USA, he added that by their very nature urban transportation studies were not only extremely capital intensive but also very time consuming and required concerted efforts on a continuing basis. In this connection he referred to the transport related components in Karachi Special Development Programme for which 5 teams of consultants were engaged for a period of about 12-18 months to work on only selected aspects of urban transportation and would cost about Rs. 350 million. He was of the view that the present practice of hiring foreign consultants not only involved prohibitive costs, it also did not help in

evolving an optimum solution, because of the ignorance of foreign 'Experts' regarding local problems, and at the same time left no residual expertise for follow-up action. He explained that in many cases the 'Experts' did not possess either the relevant qualifications or experience or both. He also briefed the participants regarding the endorsement of the proposal by Sub-Working Groups consittuted by the Planning Commission on (a) Road Transport and (b) Transport Research in connection with 7th Five Year Plan.

He further stated that the matter was deliberated upon by the Research Advisory Committee of the Centre, all the concerned federal ministries, the four provincial governments and the views of the Secretary Planning and Development Division. Accordingly a PC-I for the setting up of an Urban Transport Division in the National Transport Research Centre has been prepared at an estimated cost of Rs.29.95 million spread over a period of five years.

a very useful project and a step in the right direction. He informed that the matter was being taken up at the level of the Board for their approval. To the clarification sought by the CDA representative regarding the financial involvement of CDA and the coordinating mechanism between the C.D.A. and the Centre, Chief NTRC explained that there were two views on the subject of financial involvement: (a) the sponsors should partly pay for it to ensure their interest and participation, (b) participation of sponsors to be in 'kind' rather than in 'cash'. He was personally in favour of 2nd alternative.

As regards co-ordination, the concerned agencies should depute one or two officials to be members of the Study Team.

The representative of CDA agreed with the view point and stated that CDA would like to depute their personnel which would not only ensure transfer of expertise but also an effective coordination. The matter of coordination was further discussed and it was agreed that in order to have a continuing feed back system, a Coordinating Committee may be set up preferably at the 'working level' which can meet regularly to ensure full coordination.

The representative of the Islamabad Capital Territory stated that it was a very sound proposal and a very good PC-I has been prepared which clearly pinpoints the specific areas. He observed that since the Islamabad Capital Territory has been granted the status of a Provincial Government for all practical purposes w.e.f. January, 1981 they should have been associated at the time of the meeting with the Provincial Governments. He pointed out that the two important areas relate to the training of manpower for the development of requisite expertise and a complete involvement of the provincial governments. He suggested setting up such cells at all the provincial levels, under the guidance of NTRC. To the querry of the ICT representative relating to the deputing of one Deputy Chief to each Provincial governments, it was explained that the subject of urban transportation was of a multidisciplinary nature and therefore deputing a Deputy Chief would not be of any real assistance. The representative of the ICT pointed out that only two cities are proposed to be studied during next five years and it would not be advisable to ignore the problems of cities like Gujranwala, Multan, Sialkot, etc. where the transportation problems are rapidly deteriorating and in 5-6 years would become un-manageable. These views were fully endorsed and it was considered desirable that the provincial governments

be moved to set up nucleus cells in the respective Development Authorities with technical assistance provided by NTRC.

The Secretary RTA Rawalpindi fully endorsed the project and assured to extend full support.

CONSENSUS :

Work Plan. It was however agreed that it was not enough to provide for the preparation of Transportation Plan only for 2 cities and more cities need to be attended at the earliest. It was, therefore felt desirable that this objective can be met if the respective provincial governments are also moved to develop institutional arrangements with guidance and assistance from NTRC. To begin with Urban Transport Cells be set up in the Provincial Urban Development Authorities.

LIST OF PARTICIPANTS

- 1. Mr. M. Sadiq Swati, Chief NTRC Planning Commission, Islamabad
- 2. Mr. Maqbool Ilahi,
 Deputy Director General (P)
 Capital Development Authority,
 Islamabad
- 3. Mr. Shahid Najam,
 Director (F),
 Administrator Islamabad
 Capital Territory,
 Islamabad
- 4. Mr. Bashir Ahmad Dogar,
 Secetary,
 Regional Transport Authority,
 Rawalpindi
- 5. Mr. M. Kazim Idris, Deputy Chief NTRC. Planning Commission Islamabad

CAPITAL DEVELOPMENT AUTHORITY (Planning Wing)

* * * * *

No. CDA/PLW-TEC(29)/88/16年

Islamabad, June 16,1988.

To

Mr. Sadiq Swati, Chief, NTRC, Ground floor, Block 4-B, F-7 Markaz, Islamabad.

Sub:-

URBAN TRANSPORT DIVISION IN NTRC.

Further to the meeting held on March 15, 1988 on the subject noted above, the Capital Development Authority fully endorses the proposed scheme including the work plan, as the outcome of the study would help the Authority draw a comprehensive traffic plan of the twin cities of Rawalpindi and Islamabad.

It is requested that NTRC may consider the association of one or two officers of the Planning Wing of CDA with the study team of the NTRC to receive on-the-job training.

(MAGBOOL TLAHI)
DDG (Planning)

MINUTES OF THE CDWP MEETING HELD ON 10TH AUGUST, 1988

Item No. 24: PC-II National Transport Research Centre (Phase-III) - (Cost Rs. 89.55 million - F.E.C.: Rs. 1.0 Million)

Chief T&C Section explained the background and various stages through which the project had passed since it was considered by the CDWP in its meeting held on 2.5.1988. He stated that the Evaluation Committee set up by the CDWP had carried out a detailed evaluation of the work done carried out by the Centre which showed that the output of the Centre in terms of number of reports and pages respectively was 3 to 4 times that of the foreign experts, who had worked with the Centre during the period 1976-87. The Evaluation Committee had fully endorsed the programme of NTRC as mentioned in PC-II (Phase-III). He, however, felt that since the subject of urban transportation was of a highly specialized nature, it would be necessary to prepare a detailed PC-I separately and proposed that the urban transportation studies be deleted from the project under consideration which would reduce the size of the present PC-II to Rs. 59.550 million (FEC: Rs. 1.00 million). He added that the Ministry of Finance had also not favoured the inclusion of Urban Transport Studies in the PC-II.

that only a skelban permanent staff had been provided at the Centre the expenses of which was met from the Revenue Budget. The present project only provided for survey staff, travel and stationery, etc.

To the observation of the Chairman that the employment of staff on contract basis would result in loosing the trained manpower, the Chief NTRC explained that this arrangement had its own advantages as it was most cost effective and since efficient workers were retained quality work was also ensured. Besides, this arrangement did not cause any permanent financial burden to the Centre.

In reply to the observation of the representative of the Ministry of Finance regarding the size of the research programme and staff recruitment problem the Chief NTRC explained that the research programme had been proposed by a Committee under the Chairmanship of Secretary, Ministry of Communications with representatives from all the concerned federal and provincial transport agencies. As regards staff, the position was much better than during the Sixth Plan.

The Secretary (Communications) observed that the National Transport Policy emanated from the research work done by the Centre and strongly recommended the approval of the research programme of the Centre as the only source for shaping future policies and programme.

To the querry of the Chairman regarding the expenditure incurred on research work during Phase-II (1983-88), Chief NTRC informed that about Rs. 22 million were spent during this period. He elaborated that the proposed increase was due to the increased Research Staff and the provision of about Rs. 20 million for hte Traffic Count Programme.

The Chairman observed that keeping in view the research expenditure during the period 1983-88, the research programme may be reduced to bring the overall size of PC-II to Rs. 50 million.

The representative of Government of Punjab pointed out that they had certain reservations regarding the Evaluation Report. Secretary (Planning) observed that Government of the Punjab had expressed similar views in the last meeting also when they were asked to convey them in wiriting but that had not been done so far. The Chairman directed that they may be placed on record as and when they were received.

DECISION:

- 1) The PC-II NTRC Phase-III covering the period 1988-93 was approved at a total cost of Rs. 50 million including FEC of Rs. 1.00 million.
- 2) The provision for research studies was reduced (from Rs. 24.00 to Rs. 14.450 million) accordingly.
- 3) The provision of Rs. 30 million envisaged for Urban Transport Studies in the PC-II was deleted.

5th Meeting of the Inter-Ministerial Committee (IMC) of NTRC held under the chairmanship of Mr. A. G. N. Kazi, Deputy Chairman, Planning Commission on 23.11.1988 at Islamabad

Relevant Extracts

Item No. 9 Urban Transport Wing in NTRC

Senior Chief NTRC explained the need for a proper institutional arrangement to look into the problem of urban transport on a continuing basis and explained the salient features of the PC-I amounting to Rs. 33.30 million (FEC: Rs. 5 million) prepared by the Centre with the full involvement and concurrence of all the Provincial Governments, the Ministry of Communications and other concerned agencies. The Secretary Communications stated that conceptually it was a very useful scheme and should be taken up to solve the urban transport problem which over the recent years has emerged as a major problem with multi-dimensional aspects in a major city like Karachi.

Decision

The PC-I should be processed for approval through the CDWP.

URBAN TRANSPORT WING IN N.T.R.C.

1. Details of Salary Expenditure/Field Surveys

`							
70 % D	ription		1989-90	1990-91	1991–92	1992-93	Total
I			3	4	5.		
(A) REGULAR STAFF	BPS	Š.				•	
J. Chief	20	rH	138,805	141,625	144,445	147,265	572,140 Further Break
2. Demity Chief	61	ıc	556,175	568,475	580,775	593,075	
3. Assistant Chief	182	ıΩ	388,965	400,665	412,365	424,065	
4. Research Officer	.T	10	597,290	615,890	634,490	653,090	2,500,760 JB.1 and B.2.
5. Superintendent	16	۲	28,383	29,643	30,903	32,163	121,092 7 Funther hreak
	. 15	9		155,550	160,662	165,774	632, 424 1 m marr he
7. Stenotvoist	12	10	210,880	217,120	223,360	229,600	880,960 'com in Annex
	Ħ	۲		20,410	20,962	21,514	82,744 18.3 and B.4.
9. Dranghtsman	11	Н	19,858	20,410	20,962	21,514	82,744
	Clerk 5	7	31,094	31,694	32,294	32,894	127,976
	-	15	214,665	217,005	219,345	221,685	872,700
Sub-Total (A):-	1	57	2,356,411	2,418,487	2,480,563	2,542,639	9,798,100
(B) SURVEY STAFF/FIEID SURVEYS	RID SURVEYS		,				Further Brea
1. Investigators	91	10	283,830	296,430	309,030	321,630	
	11	15	297,870	306,150	314,430	322,710 1.500,000	1,241,160 seen in Annew-5,500,000 B.5
- S. Frerd Surveys							
Sub-Total (B)		25	1,581,700	2,102,580	2,123,460	2_144,340	1,352,000
TO+31 (A + B)	!		3,938,111	4,521,067	4,604,023	4,686,979	17,750,180
			'n				

Annex-B.1

URBAN TRANSPORT WING IN N.T.R.C.

SALARY CALCULATIONS FOR DIFFERENT PAY SCALES FOR THE PROJECT PERIOD (BPG-17 TC 20)

ta.1	47P.	572,140	1,426,332 ;	872,168	1,020,564 ;	605,496	1,324,780 ;	1,175,980	7,460 77,460	
Total		57	1,42	87	1,02	9	1,32	1,17	96,9	
1992 - 93 11.07.92.01.12.92 30.11.92.30.06.93	T. T	60,675 86,590	151,395 216,258	92,730 132,692	108,990 156,681	64,860 93,534	141,550 203,595	126,050 181,895	746,2501,071,245 6,997,460 1,817,495 6,997,460	
No. of Phik Maylin PAY 1992 - 90 1599 - 90 1990 - 91 1991 - 92 1992 - 93 $1992 - 93$ $1992 - 93$ $1992 - 93$ $1992 - 93$ $1992 - 93$ $1992 - 93$ $1992 - 93$ $1992 - 93$ $1993 - 93$ $1993 - 93$ $1933 - 93$ $1933 - 93$ $1933 - 93$ $1933 - 93$ $1933 - 93$ $1933 - 93$ $1933 - 93$ $1933 - 93$ $1933 - 93$ $1933 - 93$ 1933 193 193 1933 1933 1933 1933 193 193 193 193 193 193 193 193 193 193 193 1	12. 13.	57,150 81,655 58,325 83,300 59,500 84,945	142,170 203,343 145,245 207,648 148,320 211,953	86,580 124,082 88,630 126,952 90,680 129,822	100,215 144,396 103,140 148,491 106,065 152,586	59,010 85,344 60,960 88,074 62,910 90,804	129,925 187,320 133,800 192,745 137,675 198,170	114,425 165,620 118,300 171,045 122,175 176,470	689,475 991,760 708,4001,018,255 727,3251,044,750 746,2501,071,245 6,997,460	,
- 91 01.12.90 30.06.91		83,300	207,648	126,952	148,491	88,074	192,745	171,045	1,018,255	
1990 - 91 01.07.90,01.12 30.11.90,30.06		58,325	145,245	88,630	103,140	60,960	133,800	118,300	708,400	
90 01.12.89	50	81,655	203,343	124,082	144,396	85,344	187,320	165,620	991,760 1,681,235	
1989 - 90 01.07.89;01. 30.11.89;30.	8	57,150	142,170	86,580	100,215	59,010	129,925	114,425	689,475	
01.12.92 30.11.93	•	12,370	10,298	9,478	7,461	6,681	5,817	5,197		
01.12.91; 30.11.92;		12,135 12,370	10,093	9,273	7,266	6,486	5,662	5,042	 	
PAY 01.12.90	9	11,900	9,888	890,6	7,071	6,291	5,507	4,887	1	
PER MONTH PAY 01.12.89.01.	4	11,665	9,683	8,863	6,876	960,9	5,352	4,732		
61.7.89 30.11.89	, ,	11,430	9,478	8,658	6,681	5,901	5,197	4,577	Total	
No. of Emplo- yees		П	φ φ	63	cs Cs	C3	ec.	ςς ις		
				q	ď	q	ç,	Q'	! !	
SZ	−iį	20	, F	F.	٥٢	i	ŗ	i, i	i	

+Q = With Qualficiations Allowance

-Q = Without Qualficiation Allowance

URBAN TRANSPORT WING IN N.T.R.C.

BREAKDOWN OF SALARY CALCULATION FOR DIFFERENT PAY SCALES

(BPS-17 TO 20)

, <u>[</u>	. 30°TT°83	;		370	86	478	191	381	317	197
	33.31.10.	22.		ង្គ	10,298	ò	7,461	6,681	5,817	5,197
ALLOWANCES)	18,11,10 30,11,08	21.		12,135	10,093	9,273	7,266	6,486	5,662	5,042
+ ALLO	01.12.9C	120		006,11	9,888	9,068	7,071	6,291	5,507	4,887
PAY (PAY	08,11,10 30,11,90	15.		11,665	9,683	8,863	6,876	960,9	5,352	4,732
TOTAL P	68.70.10 68.11.08	18.		11,430	9,478	8,658	6,681	5,90I	5,197	4,577
	cotal without noitaciticad	17.	-	. !	φ, ξ	4,528 -Q	9	9, 191 -Q	1. 1. 1. 1.	, , , , , , , , , , , , , , , , , , ,
	lotal with Qualification	le.		6,530		o,348		3,81 L	60 F	707.60
	րոշարություն	15.		400		I				
	Sentor Post	14.		200		ı		1		Į.
ALLOWANCES	Secret- Sariat Allowance	13.		. 038	6	023		າສ /	i i	029
ALLON	-olitico ations	12.		940	6	028 830	((⊋ ,	é	020
7	Design	듸		200	6	009	((<u>1</u>	ດດຊ		400
	Kesearch	9		800	. (800	1	542	;	413
	.woLIA.vno	6	ż	305		T20		Ten		061
	House Juent	8		2,205	1	1,858		1,219		828 8
	01,12,92 30,11,93	7.		5,840		4,950		3,490	,	2,685
† † - -	30,11,91	9		5,605		4,745		3,295	1	2,530
C PAY	16.11.08 06.21.10	Ω.		5,370		4,540		3,100		2,375
EASI	98.21.10 98.11.08	4		5,135		4,335		2,905		2,220
	68,70,10 68,11,08	3		4,900		4,130		2,710		2,065
	PAY			4,900-235-6,780		4,130-205-5,770		2,710-195-4,660		2,065-155-3,925
	BPS			20	•	18		18		17

+Q = With Qualification Allowances -Q = Without Qualification Allowances

URBAN TRANSPORT WING IN N.T.R.C.

SALARY CALCULATION FOR DIFFERENT PAY SCALES FOR THE PROJECT PERIOD

(BPS - 1 TO 16)

!										• (•			. 1		1
1 1 1		ទង្	remai	H .		17.										
1 1 1		 	[8]	oT 		16.		121,092	632,424	096*088	82,744	82,744	127,976	872,700	<u>.</u>	2,800,640
(Rupees)	7	2-93	26°	21. 80.	30 01	15		19,068	97,944	135,450	12,684	12,684	19,334	129,885	i	427,049
	MONTH PAY	1992	26. 26.	70. LI.	0£	14.		13,095	67,830	94,150	8,830	8,830	13,560	91,800	298,095	
	X PER M	-92	16.	21.	30 T0	13.		18,333	94,962	131,810	12,362	12,362	18,984	128,520] 	417,333
	EUPLOYEES OF MONTH)	1991	16.	70.	0E TO	12.		12,570	65,700	91,550	8,600	8,600	13,310	90,825	251,155	
	OF NO.		06°	2I. 90.	0£	11.		17,598	91,980	128,170	12,040	12,040	18,634	127,155	 	407,617
	PAY (NO.	1990-	06.	70. LI.	30 TO	10.		12,045	63,570	88,950	8,370	8,370	13,060	89,850	284,215	
	TOTAL	06-6	06	2I.	30 T0	6		16,863	866,88	124,530	11,718	11,718	18,284	125,790		397,901 675,176
	 	1989	68. 68.	70. II.	30 01	8		11,520	61,440	86,350	8,140	8,140	12,816	88,875	277,275	
	 	L	.93 .93	11.	30 0 I	7		2,724	2,332	1,935	1,812	1,812	1,381	1,237		
	! ! ! ! !	> 4	16.	11.	30 01	9		2,619	2,261	1,883	1,766	1,766	1,356	1,224		
	!	MONTH FAY	Т6°	.12 .11	30 T0	5.		2,514	2,190	1,831	1,720	1,720	1,331	112,1		
	İ	자전 지 된	06	SI.	30	4	 	2,409	2,119	1,779	1,674	1,674	1,306	1,198		-: -:
	1 th as an an an ar ar ar		68	70.	30 30			2,304	2,048	1,727	1,628	1,628	1,281	1,185		Total
	į		Tome :			1.2.	i	16 1	15 6	12 10	ר ננ	11, 1	гэ 73	1 15	 	

URBAN TRANSPORT WING

BREAKDOWN OF SALARY CALCULATIONS OF DIFFERENT PAY SCALES (BPS - 1 TO 16)

	(§;	Sylvensyle 1	18.								
 	Allowances	26,11,1 6,11,03	17.		2,724	2,332	1,935	1,812	1,381	1,237	٠
(səədr	(Pay +	16.21.1 26.11.0	16.5		2,619	2,261	1,883	1,766	1,356	1,224	
Ð	Pay	06.21.1 16.11.0	15.		2,514	2,190	1,831	1,720	1,331	1,211	
	Total	98,21,1 06,11,0	14.	•	2,409	2,119	1,779	1,674	1,306	1,198	
		68,70,10	13.		2,304	2,048	1,727	1,628	1,281	1,185	
-	-	Total			954	883	757	718	581	585	
	ν. · ·	Medical	17		ı	50	20	50	50	20	
	ance	Sectt.	10.1		270	233	194	182	140	189	
	Allowances	Convey-	6		92	92	92	92	92	92	
 	₹ ;	House Fent	8		809	524	437	410	315	270	
- 		20.21,10 89,11,08	7		1,770	1,449	1,178	1,094	800	652	
 		10.11.00 20.11.08			1,665	1,378	1,126	1,048	775	639	
1	Basic Pay	06.SI.10 16.LL.08	5.		1,560	1,307	1,074	1,002	750	929	
	Basi	08.21.10 30.11.90	4.		1,455	1,236	1,022	956	725	613	
1		68,70,10 68,11,08	9	-	1,350	1,165	0.26	016	700	900	
	1	Рау Беаle	2.		1,350-105-2,925	1,16571-2,380	970-52-2,010	910-46-1,830	700-25-1,200	600-13-860	
i e	y Scale	Rasic P			16	15 15	13	11	IO.	н .	•

Annex-B.6

IN N.T.R.C. URBAN TRANSPORT WING

BREAKDOWN OF SALARY CALCULATIONS OF DIFFERENT PAY SCALES

		12.92	7.		•	2,724	1,812		
		12.91,01.	16. 1	i i i					
	TOTAL PAY (PAY + ALLOWANCES	2.90,00.2				2,514 2,619	1,720 1,766		
(Rubees)	4Y (PAY + A	89,01.1 90,30.1	15	 			*		
岳	L PAY (30.11.	14.	! ! ! !		2,409	1,674		
	TOTA	01.07.89 30.11.89	13.			954 2,304 2,409	718 1,628 1,674		
		Total	12.			954	718		
		Medical	11.			ı	20		
	ALLOWANCES	Sectt.	10			270	182		
	ALLO	20mve- ance	6			92	92		
		fouse; (Rent	φ. 			809	410		
		1.12.91;01.12.92;House;Conve.;Sectt.;Nedical;Total;01.07.89;01.12.89;01.12.90;01.12.90;01.12.91;01.12.92;01.11.92;30.11.93;Rent ance ;Sectt.;Nedical;Total;30.11.89;30.11.90;30.11.91;30.11.92;30.11.93	7.			1,770 608 76	1,094 410 76	-	
	,	01.12.91; 30.11.92;	9			1,665	1,048		
1	PAY	01.12.90 30.11.91	5.		-	1,560	1,002		
	BASIC PAY	0.11.90	4.			1,455	956		
		. 01.07.89.01.12.89.01.12.90.01 . 30.11.89.30.11.90:30.11.91.30	3.			1,350	016		
	(EFS Fay Scale	, 2.			16 1,350-105-2,925	910-46-1,830		
	. .	bro, ray	 - - -			16 T	=		
į	,	٦ ¦	7						

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Annex-	

URBAN TRANSPORT WING IN N.T.R.C. 2. DETAILS OF OTHER EXPENDITURE

Rupees)	Re m p r r r r r r r r r r r r r r r r r r	8	* Office estimated area is	14,000 sq.ft. and at rate	of Ms.3.50/sq.ft the monthly rent is Rs. 40 000/	* 1000 for	:	5.5	3 :						
(B)	Total		400,000	400,000	240,000	200,000	200,000	100,000	100,000	40,000	1,176,000	132,000	300,000	3,288,000	
	01.07.92	6	100,000	100,000	60,000	50,000	50,000	25,000	25,000	10,000	I	66,000	75,000	561,000	
	01.07.91 30.06.92		100,000	100,000	000,09	50,000	50,000	25,000	25,000	10,000	. i	000,99	75,000	561,000	
	01.07.90 30.06.91	4.	100,000	100,000	60,000	50,000	20,000	25,000	25,000	10,000	588,000	ŧ	75,000	1,083,000	
	01.07.85 03.06.90	(n)	100,000	100,000	. 000,09	50,000	20,000	tc. 25,000	25,000	10,000	588,000	ı	75,000	1,083,000	!
	Description	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Transport (POL)	Communications (Telephone)	Utilities	Stationery	Printing	Books Journals and Newspaper, etc.	Contingent Staff	Uniform and Liveries	Office Rent*	Building Maintenance	Other Expenditure/Maintenance of Equipment	Total : [-	
	No.	- T - T - T - T - T - T - T - T - T - T	ij		ю	4.		9	7.	<u>٠</u>	o	10.	11.		77.

* Starting Office Rent

,		-24
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i .** I		N
<u> </u>	i	‡
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3. DETAILS OF DURABLE GOODS

URBAN TRANSPORT

	1989 - 90	1990 - 91	1991 – 92	1992 - 93	1	
Description 101.	01.07.89-30.6.90,01.07	01.07.90-30.06.91	.90-30.06.91,01.07.91-30.06.92,01.07.92-30.06.93	01.07.92-30.06.93		Remarks
	3.	4	5	6.	7	8.
	1 1 1 1 1 1 1					
1. Transport	500,000	I ,	. 1	I	500,000	Ford Wagon,Suzuki Car
2. Machinery and Equipment	200,000	1	I	i	200,000	
3. Typewriter (16 Nos.)	160,000	1.	l	1	160,000	
4. Photocopying Machine	100,000	l	l	1.5	100,000	
5. Other Office Machine	100,000	I	1	ı	100,000	*
6. Micro Computer and Software	200,000	. ,	, 1	1	200,000	
7. Furniture and Fixture	453,000	T .	l	ţ	453,900	Details at Annex-'F'
house						
.Total :-	1,713,900	ı		i .	1,713,900	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

URBAN TRANSPORT WING IN N.T.R.C.

SPACE REQUIREMENTS AND COST OF OFFICE BUILDING

	· · · · · · · · · · · · · · · · · · ·		
		1	1
S. No.	Description	Unit Space (Sq.ft.)	Total Space (Sq.ft.)
	2,	3.	4.
° → •			

1. SPACE REQUIREMENTS

Α.	STAF	<u>F</u>	No. of Posts	.*			
	1.	Chief	. 1	. :	320	· .	320
	2.	Deputy Chief	5	2	240		1,200
	3.	Assistant Chief	5	:	160	•	800
•	4.	Research Officer	10.	:	160		1,600
	5.	Superintendent	1	;	160		160
	6.	Stenographer	6		80	·	480
-	7.	Stenotypist	10		80		800
	8.	Assistant	1		80	.*	80
	9.	Draughtsman	1		160		160
-	10.	L.D.C.	2		80	•	160
	11.	Naib Qasid	15		****		-
	12.	Survey/Staff	25		60		1,500
в.	STORE	2				•	600
c.	RECOR	RD ROOM					400
D.	TOILE	IIS					960
Ε.	MEETI	NG HALL				<u> </u>	800
						TOTAL :-	9,960
T.	ሲኒያርቲ	ILATION AREA © 40% CF THE TOTAL AREA					3,984
r,	CINCL	WHITOU BEAU & JOB ON THE LATTER BEET	·				
						GRAND TOTAL:	13,944
						SAY	14,000 sq.ft

2. OFFICE BUILDING COST

DETAILS OF FURNITURE REQUIREMENTS AND COST ESTIMATES

S.No.	Descri	iption .	Approx. Cost	(Rupe	oes) otal Cost
I.	CHIEF - 1 1. Revolving Chair 2. Visitor Chairs 3. Sofa Set 4. Table 5. Centre Table Set 6. Rack 7. Book Shelf 8. File Cabinet	Qty 1 6 1 1 1 1 1	2,500 400 5,000 3,000 1,200 1,000 1,000	Total :-	2,500 2,400 5,000 3,000 1,200 1,000 1,700
II.	DEPUTY CHIEFS - 5	. •		_	
	1. Chairs (Revolving) 2. Chairs (Visitors) 3. Chairs (Sofa) 4. Table 5. Centre Table 6. File Cabinet 7. Rack 8. Book Shelf	5 15 10 5 5 5 5	2,000 400 1,000 2,500 1,000 1,700 1,000	Total :-	10,000 6,000 10,000 12,500 5,000 8,560 5,600 5,000
				-	
III.	ASSISTANT CHIEFS - 5				2 500
	1. Chairs (Cushioned) 2. Chairs (Visitors) 3. Table 4. Steel Almirah 5. File Cabinet 6. File Rack 7. Book Shelf	5 10 5 5 5 5 5	700 400 2,000 1,700 1,700 1,000 1,000		3,500 4,000 10,000 8,500 8,500 5,000 5,000
			•	Total :-	44,500
	PROTEADON OFFICERS 10			•	
IV.	1. Chairs (Cushioned) 2. Chairs (Visitors) 3. Table 4. Steel Almirah 5. File Cabinet 6. File Rack 7. Book Shlef	10 20 10 10 10 10	700 400 2,000 1,700 1,700 1,000	Total :-	7,000 8,000 20,000 17,000 17,000 10,000 89,000
	CARTENOTO ATTENEDO - R				
v.	1. Steno Chairs 2. Steno Table 3. Chair (Visitors) 4. File Cabinet 5. File Rack	6 6 6 6	500 1,500 400 1,700 1,000		3,000 9,000 2,400 10,200 6,000
				Total :-	30,600
VI.	SUPERINTENDENT - 1 1. Chair 2. Chairs (Visitors) 3. Table 4. File Rack 5. Almirah	1 2 1 1	600 400 1,800 1,000 1,700		600 800 1,800 1,000 1,700
				Total :-	5,900
VII.	STENOTYPIST - 10 1. Steno Chairs 2. Steno Tables	10 10	400 1,500		4,000 15,000
				Total :-	19,000

				: 62:				Annex-'F' (Contd)
								(Rs.)
S.No.		<u>Descri</u>	ptio	n		Approx. Cost		Total Cost
VIII.	ASSI	STANT - 1		<u>Qty</u>				
	1. 2. 3.	Chair Table File Rack		1 1 1		400 1,500 1,000	·	400 1,500 1,000
							Total :-	2,900
IX.	DRAU	IGHTSMAN - 1						
	1. 2. 3. 4.	Drawing Table Drawing Chair Almirah Chair (Visitor)		1 1 1		2,000 1,000 2,000 400		2,000 1,000 2,000 400
		•					Total:-	5,400
х.	L.D.	C 2			·			,
	1. 2.	Chairs Tables		$\frac{2}{2}$		400 1,500		800 3,000
							Total :-	3,800
XI.	NAIB	QASIDS - 15						
	1.	Chairs		15	· · · · · · · · · · · · · · · · · · ·	300	Total:	4,500
XII.	CONT	ERENCE ROOM						
	1. 2.	Conference Table Chairs		1 20		12,000 500		12,000 10,000
							Total:	22,000
XIII.	STUD	y staff						
	Α.	INVESTIGATORS - 10						
		 Chairs Tables Steel Almirahs File Racks 		10 10 10 10		500 1,500 1,700 1,000		5,000 15,000 17,000 10,000
				-			Total:	47,000
	В.	ENUMERATORS - 15			•			
	_•	1. Chairs 2. Tables 3. File Racks		15 15 15	,	400 1,500 1,000		6,000 22,500 15,000
						•	Total:	43,500
	С.	VISITOR CHAIRS		15	#. ***	400	•	6,000
		OTHER OFFICE FURNISH	ING LUMPSU	M.				50,000
						GRAND	TOTAL :-	453,900

URBAN TRANSPORT WING IN N.T.R.C. TOTAL ESTIMATED EXPENDITURE (1989-93)

		1989-90	1990-91	1991-92	1992-93		· · · · · · · · · · · · · · · · · · ·
S. No	Description	01.07.89 30.06.90	01.07.90 30.06.91	01.07.91 30.06.92	01.07.92 30.06.93	Total	Remarks
1.	2	3:	[5	61		8
1.	SALARY/FIELD SURVEYS		•				
	(A) REGULAR STAFF BPS	<u>Vo</u>	•	٠.			
	5. Superintendent 16 6. Stenographer 15 7. Stenotypist 12 1 8. Assistant 11	1 138,805 5 556,175 5 388,965 10 597,290 1 28,383 6 150,438 10 210,880 1 19,858	141,625 568,475 400,665 615,890 29,643 155,550 217,120 20,410	144,445 580,775 412,365 634,490 30,903 160,662 223,360 20,962	147,265 593,075 424,065 653,090 32,163 165,774 229,600 21,514	2,298,500 1,626,060 2,500,760 121,092 632,424 880,960 82,744	Further break- down may be seen in Annex-B.3 and
	10. Lower Division Clerk 5	1 19,858 2 31,094 5 214,665	20,410 31,694 217,005	20,962 32,294 219,345	21,514 32,894 221,685	82,744 127,976 872,700	
	Total (A) :- 5	7 2,356,411	2,418,487	2,480,563	2,542,639	9,798,100	!
	(B) SURVEY STAFF/FIELD SURVEY				2,042,000	9,130,100	-
	1. Investigators 16 1 2. Enumerators 11 1 3. Field Surveys		296,430 306,150 1,500,000	309,030 314,430 1,500,000	321,630 322,710 1,500,000	1.241.160	Further Breakdow may be seen in Annex-B.5 &B.6
	Total (B) :- 2	5 1, 581,700	2,102,580	2,123,460	2,144,340	7,952,080	
	Total (A+B) :-		4,521,067	4,604,023	4,686,979	17,750,180	_
	1. Transport (POL) 2. Communication 3. Utilities 4. Stationery 5. Printing 6. Books Journals and Newspapers, 7. Contingent Staff 8. Uniform and Liveries 9. Office Rent* 10. Building Maintenance	25,000 10,000 588,000	100,000 100,000 60,000 50,000 50,000 25,000 25,000 10,000 588,000	100,000 100,000 60,000 50,000 50,000 25,000 25,000 10,000	100,000 100,000 60,000 50,000 50,000 25,000 25,000 10,000	400,000 400,000 240,000 200,000 100,000 100,000 40,000 1,176,000 132,000	*Office Estimated area is 14,000 sq.ft. and at the rate of Rs. 3.50 per sq.ft.the monthly rent is Rs.49,000/
	11. Other Exp./Maintenance of Equip	oment 75,000	75,000	75,000	75,000	300,000	·
	Total (2) :-	1,083,000	1,083,000	561,000	561,000	3,288,000	
3.	DEPARTE COOKS 1. Transport 2. Machinery and Equipment 3. Typewriters (16 No.s) 4. Photocopying Machine 5. Other Office Machine 6. Micro Computer and Software 7. Furniture and Fixture	500,000 200,000 160,000 100,000 100,000 200,000 453,900				500,000 200,000 160,000 100,000 200,000 453,900	Ford Wagon + Suzuki Car Details at
	Total (3)	1,713,900				1,713,900	Annex-'F'
4.	OFFICE BUILDING	2,100,000	2,100,000			4,200,000	
	Total (1+2+3+4) :-	8,835,011	7,704,067	5,165,023	5,247,979	26,952,080	
5.	CONTINGENCIES 5%	441,751	385,203	258,251	262,399	1,347,604	
	TOTAL (1 - 5) :-	9,276,762	8,089,270	5,423,274	5,510,378	28,299,684	
6.	TECHNICAL ASSISTANCE (FEC) :-	1,000,000	1,000,000	1,500,000	1,500,000	5,000,000	
	GRAND TOTAL :-	10,276,762	9,089,270	6,923,274	7,010,378	33,299,684	

^{*} Starting Office Rent

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EXPENDITURE	
SALARY	
OF	
DETAILS	

OF RESEARCH STAFF	

	Remarks			:	64 :		
(Rupees)	Requirement						
	Per Annum F		147,265	593,075	424,065	653,090	1,817,495
 	No.	 • †	⊢	23	េ	10	
	BPS	3	20	19	18	17	
	 Description	 	1. Chief	Deputy Chief	Assistant Chief	Rese	Total:-
 - - - - -	S.No.		Ļ	. 2		4.	

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DETAILS OF SALARY EXPENDITURE OF ANCILLARY STAFF

 	Remarks	6.			:	65 :				
(RS.)	Per Annum Requirement		32,163	165,774	229,600	21,514	21,514	32,894	221,685	725,144
	No.		H	9	10	ri	H	7	15	
	Sda	3.	16	15	12.	Π.	17		, H	
	Desc.		Superintendent	Stenographer	Stenotypist	Assistant	Draughtsman	Lower Div. Clerk	Naib Qasid	Total :-
	S.No.		ŗ	. 2	က်	4	5.	9	7.	

Annex-'J'	
N.T.R.C.	
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DETAILS OF SALARY EXPENDITURE OF SURVEY STAFF AND FIELD SURVEYS

-			1 1 1 1 1 1	(Rs.)	į
S.No.	Description	BPS	No.	Per Annum Requirement	Remarks
- - - - - -	2			1	6
• ; 	Investigator	91	10	321,630	
2.	Enumerator	11	15	322,710	
	Total		25	644,340	#
.	Field Surveys			1,500,000	Lumpsum
Grand	Grand Total :-			2,144,340	

URBAN TRANSPORT PLAN - EAWALPINDI/ISLAMABAN

RAWALPINDI - ISLAMABAD (1850-91.) URBAN TRANSPORT PLAN - RAWALPINDI/ISLAMABAD (TENTATIVI KORK PLAN) Accident Black Spot Improvement. (a) Geometric Improvement(b) Signal Synchronization (a) Demand/Supply Assessmit (a) Geometric Improvements (b) Road Sign & Marking Description (a) Demand/Supply Assessment (b) Location of Parking (c) Parking Controls 2. Intersection Improvements (a) Footpath Improvements (b) Guardrails (c) Pedestrian Bridges (d) Others 4. Public Service Facilities - Taxi Stands - Rickshaw Stands - Others (b) Storage Faciliti€s 1. Land Use
2. O-D Survey
5. Trip Generation
4. Travel Characteristics
5. System inventories
6. Data Bank
7. Design Standards
8. Others 7. Other Low Cost Measures - Bus Stops - Bus Bays - Bus - Mini Bus - Taxi - Rickshaw - Others 6. Pedestrian Facilities -5. Parking Facilities 3. Link Improvement (A) SHORT TERM: (B) LONG-TERM:

URBAN TRANSPORT FLAN - PESHAWAR

LONG-TERM: 1. Land Use 2. O-D Survey

URBAN TRANSPORT PLAN - PESHAWAR