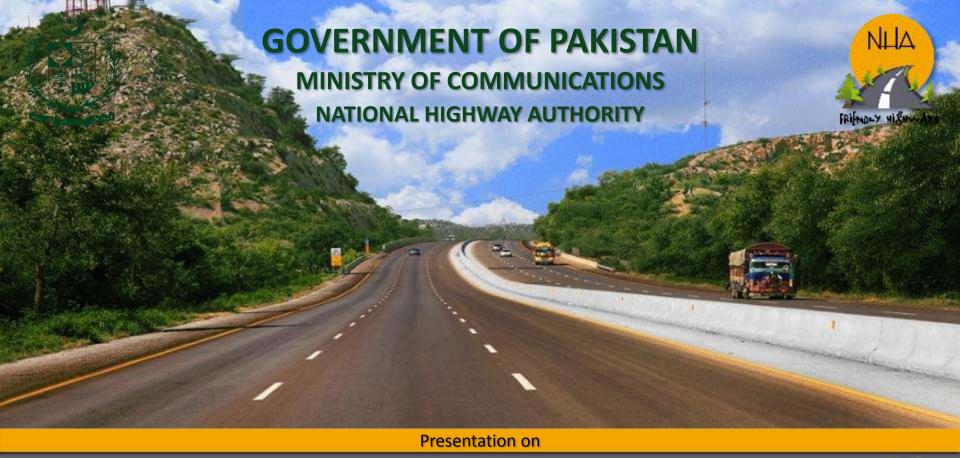
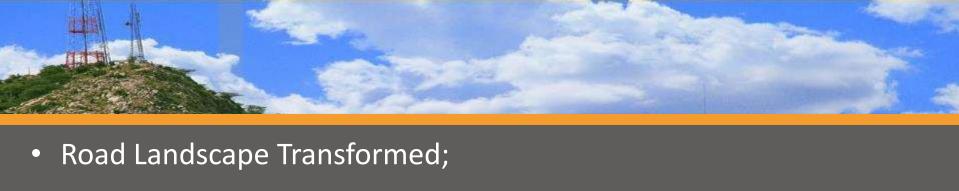


In the name of Allah, the beneficent the merciful



## **Ongoing Projects**

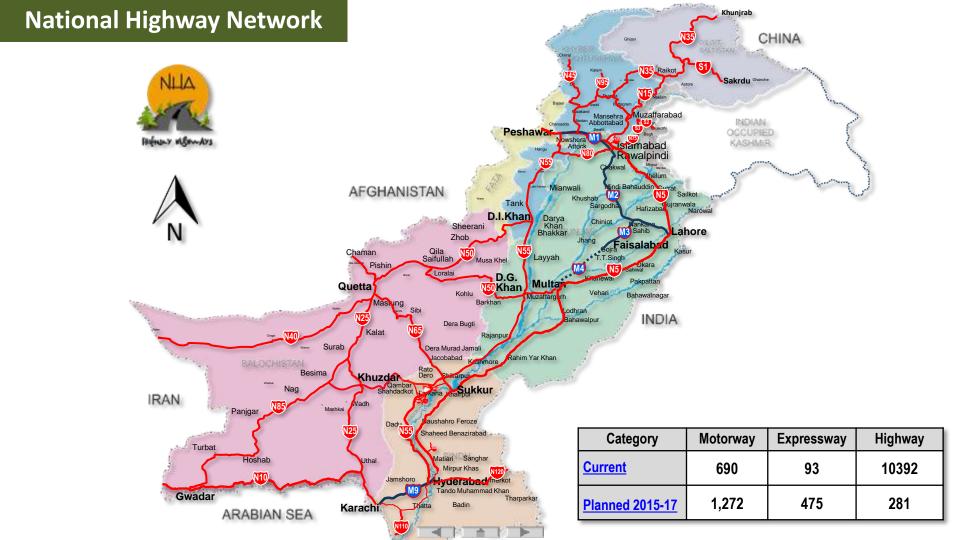
Islamabad – 26<sup>th</sup> October 2015

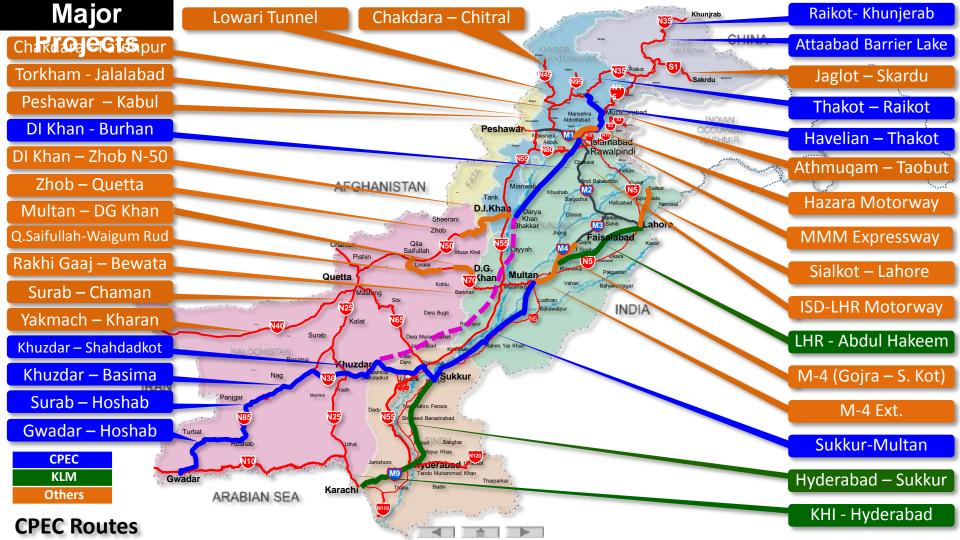


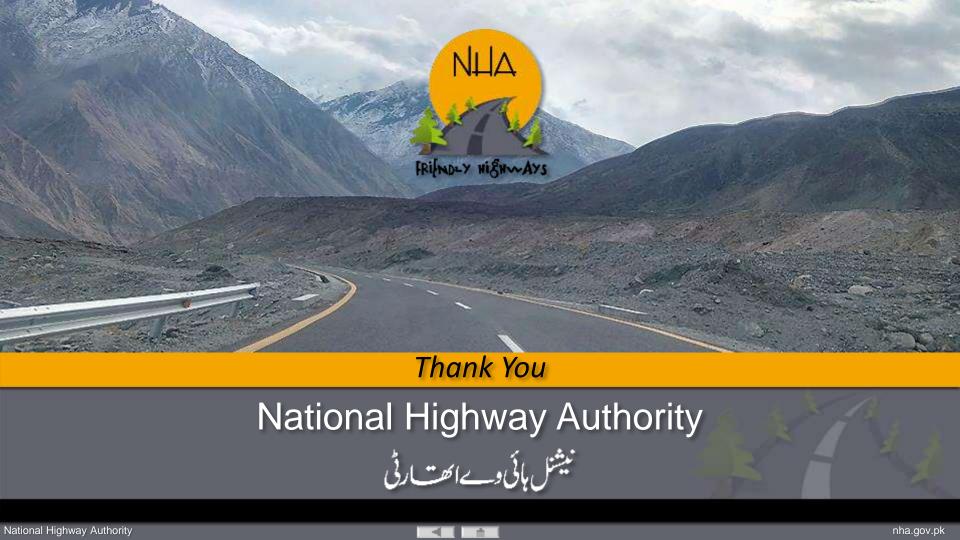
- Infrastructure Projects of over Rs.600 Billion to be completed in next Three Years;
- Implementation Commenced after Planning and Resource Deployment;



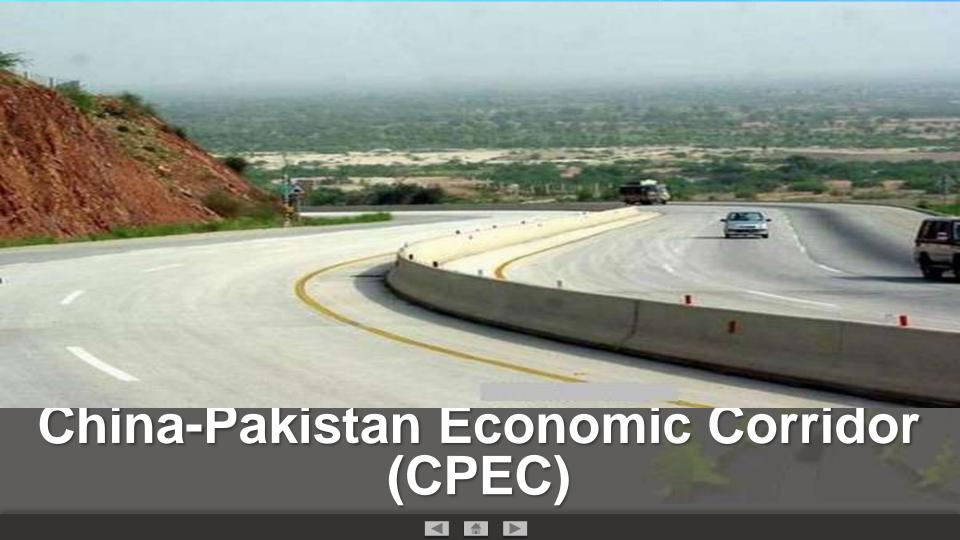


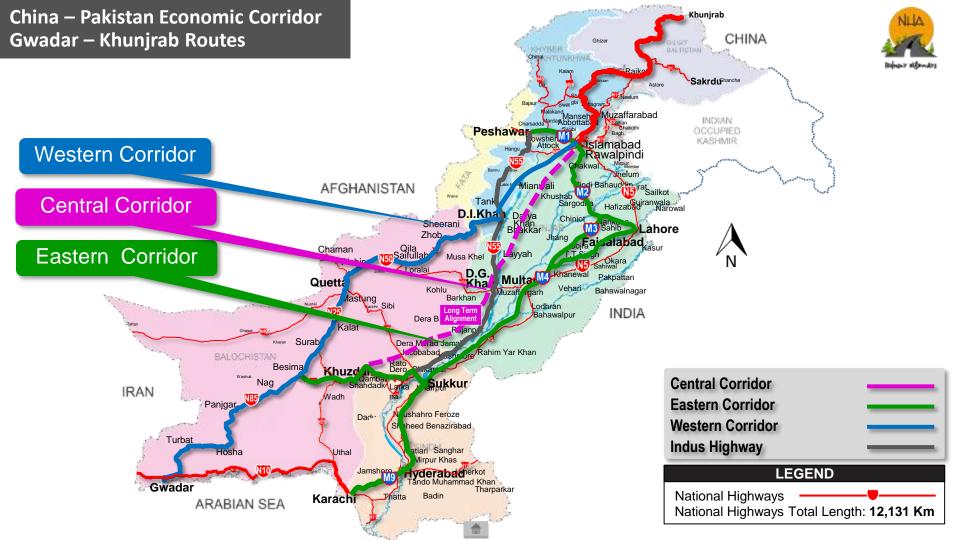


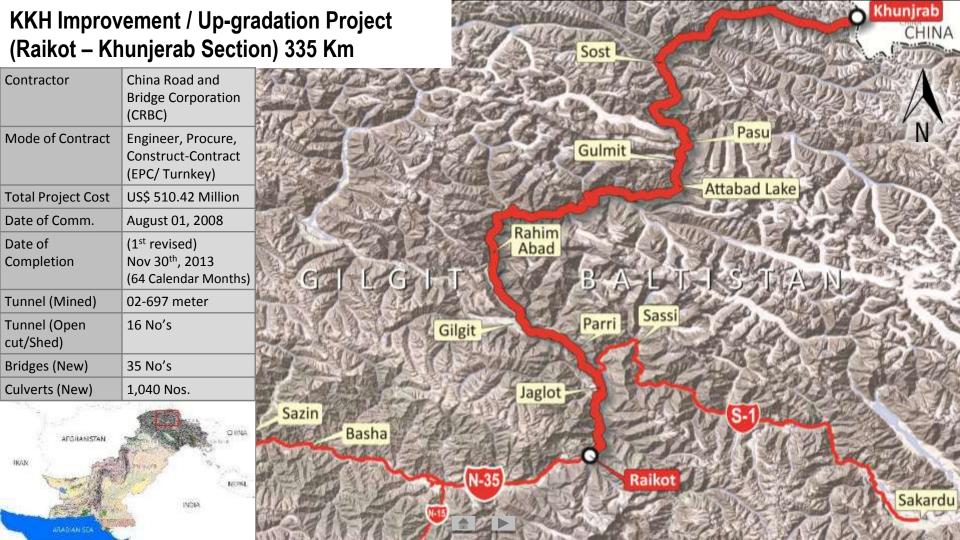


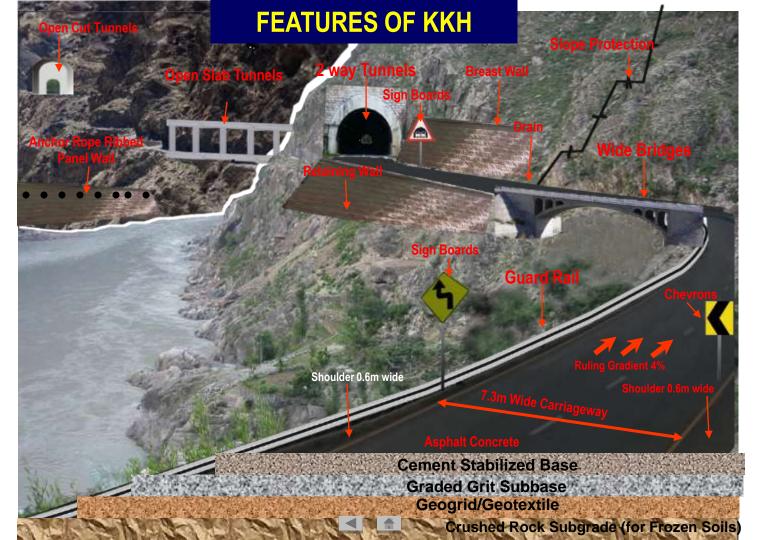


## LINK SLIDES





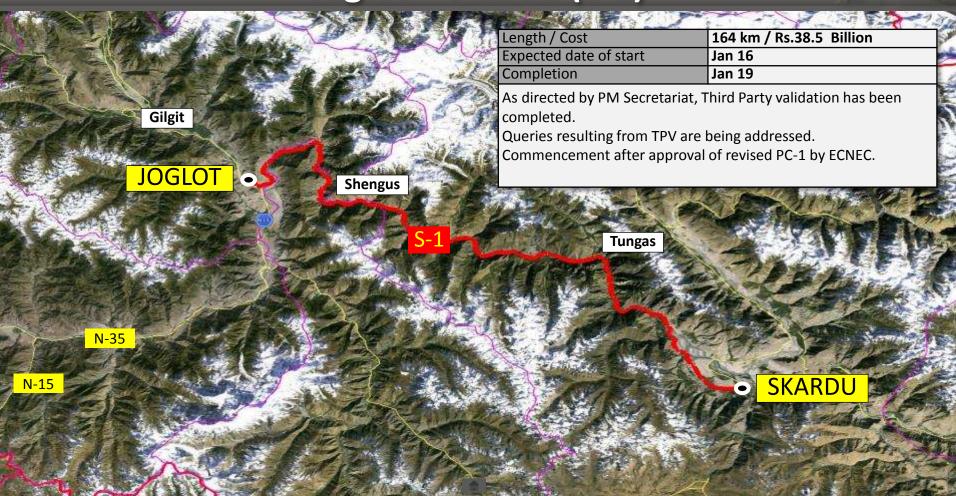




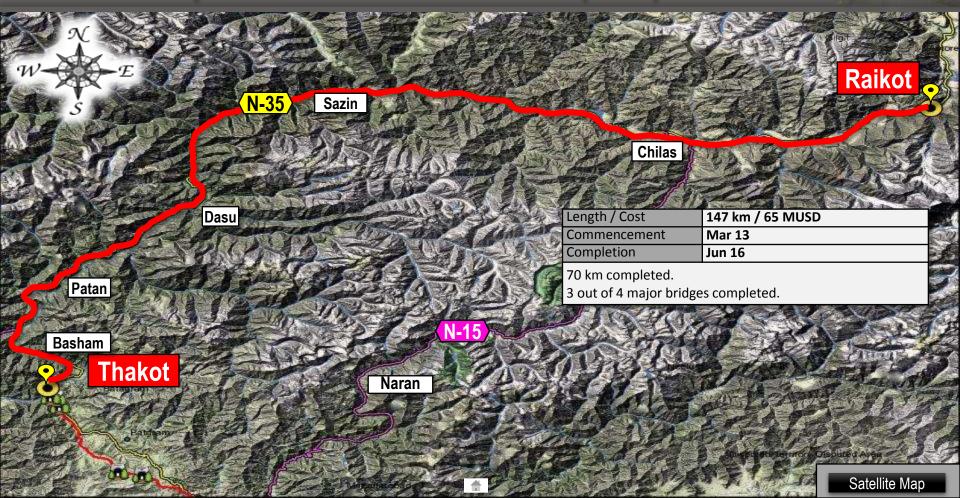
## **Atta Abad Barrier Lake**



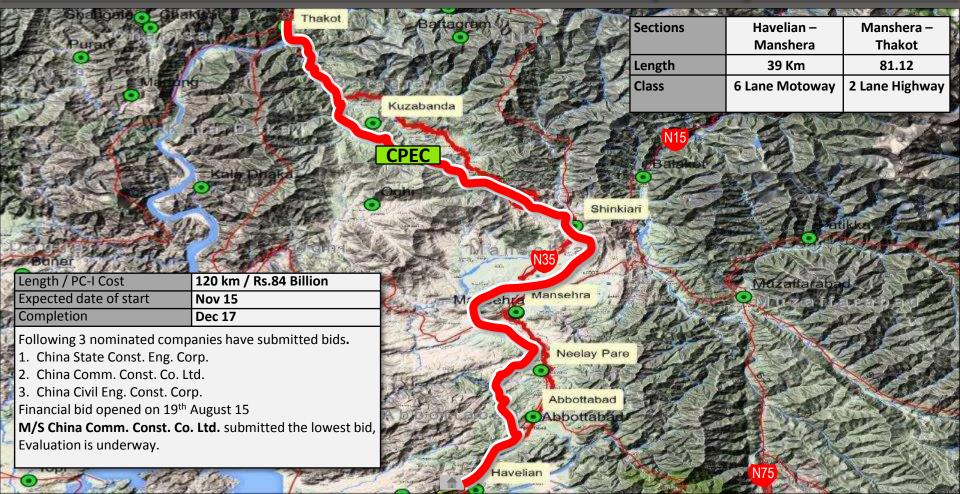
## Jaglot – Skardu (S-1)



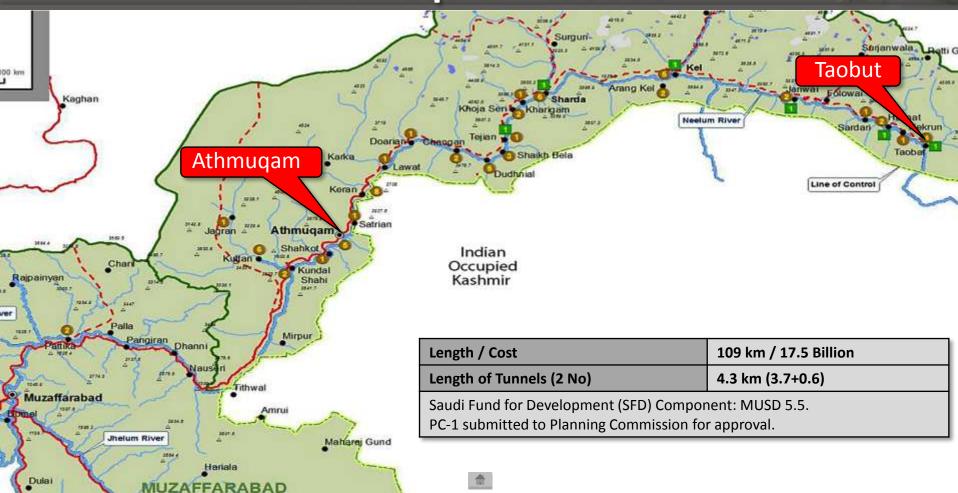
#### Rehab & Imp. of Thakot – Raikot Section (N-35) FERP Chinese Grant



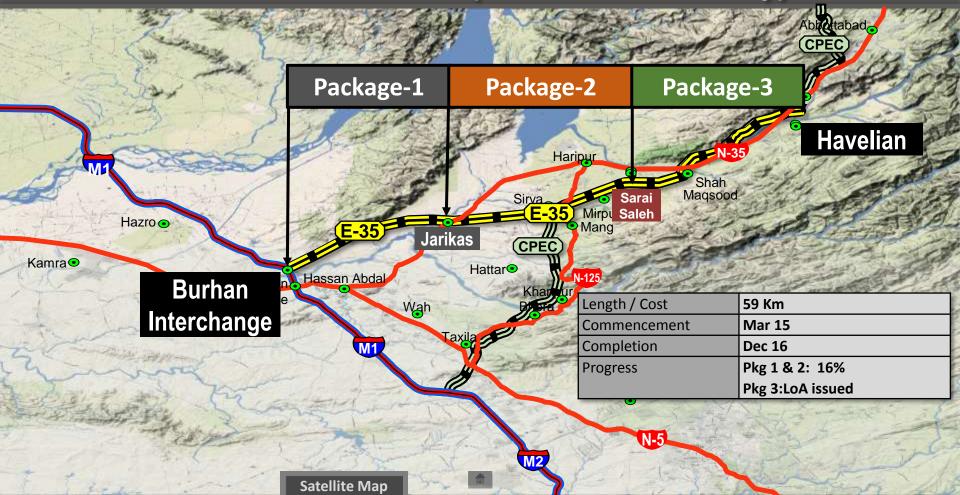
## **Havelian – Thakot Section (CPEC)**



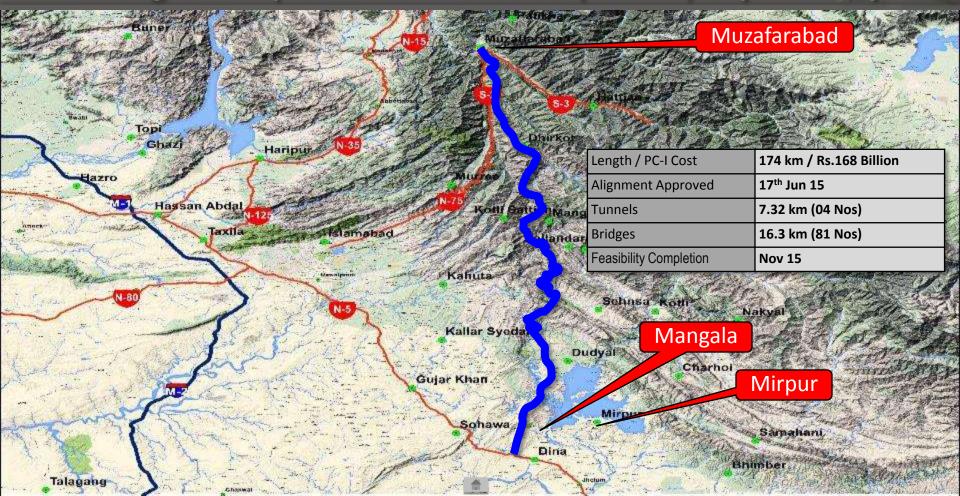
## Athmuqam – Taobut

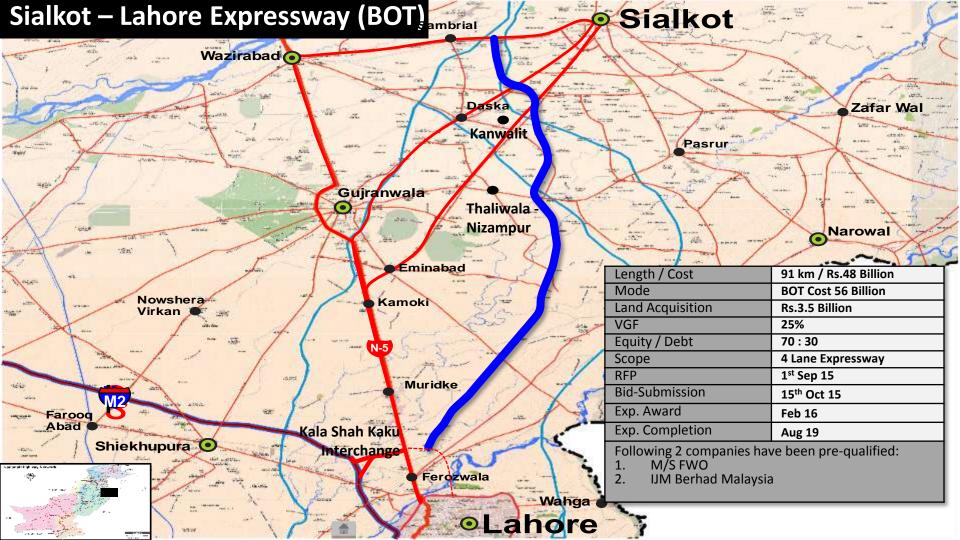


## E-35 - Burhan to Havelian (Hazara Motorway) 6 Lanes

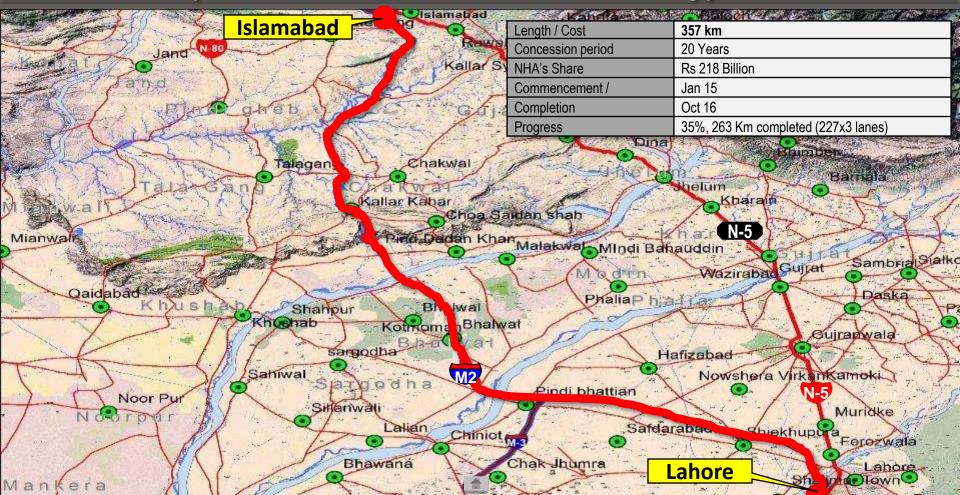


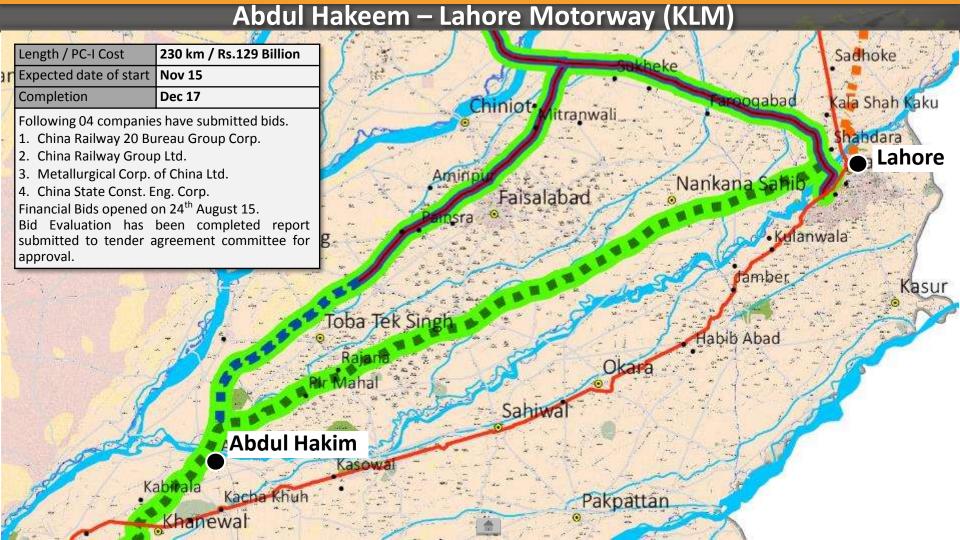
#### Mangla – Mipur – Muzafarabad (MMM) Expressway

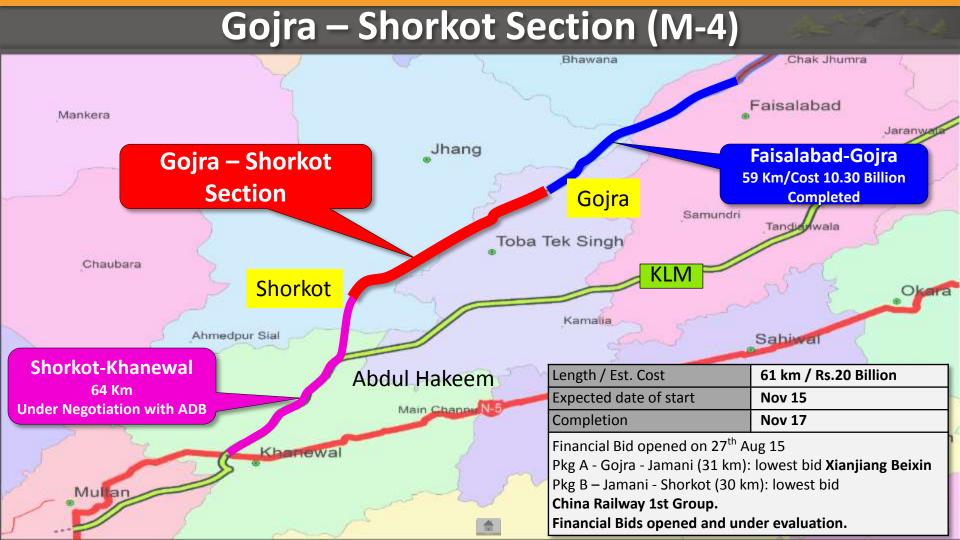


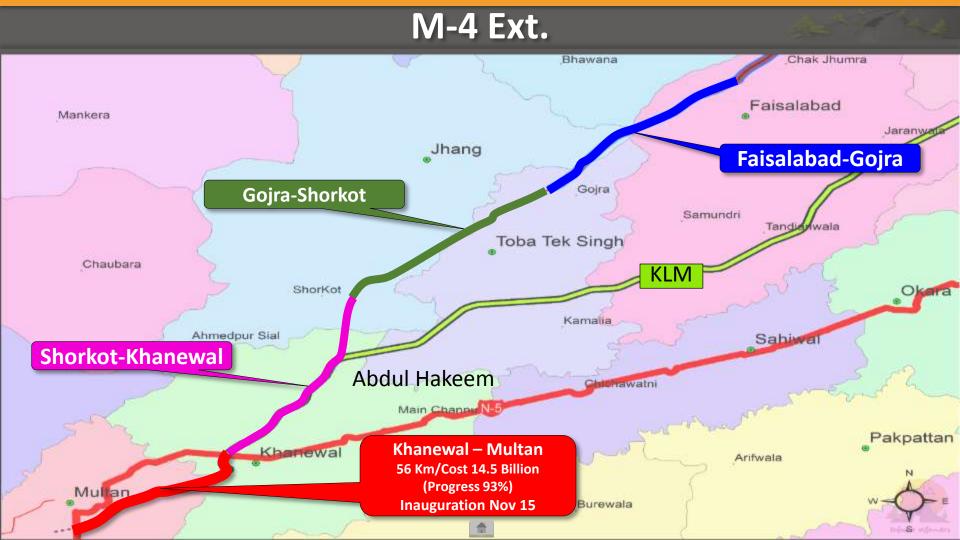


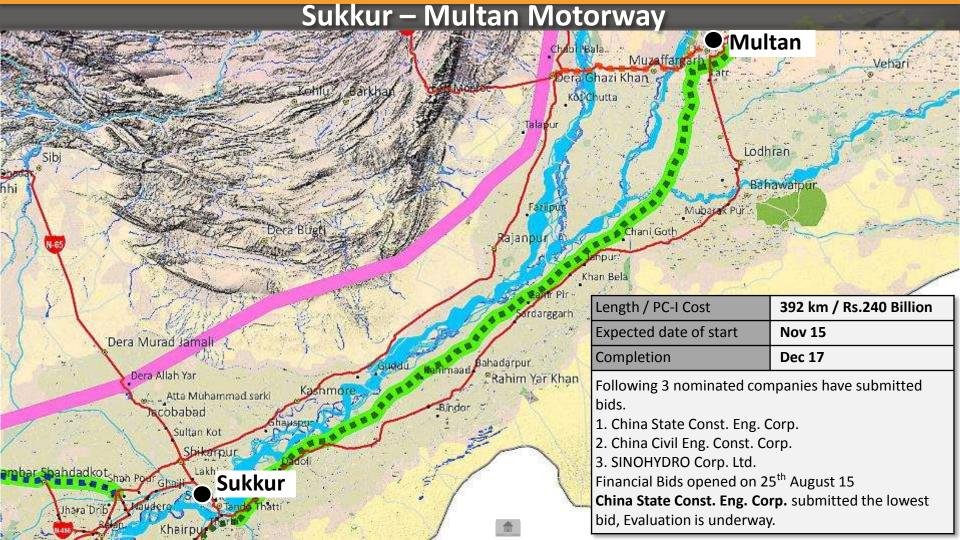
## M-2 (Lahore – Islamabad Motorway) 357 Km

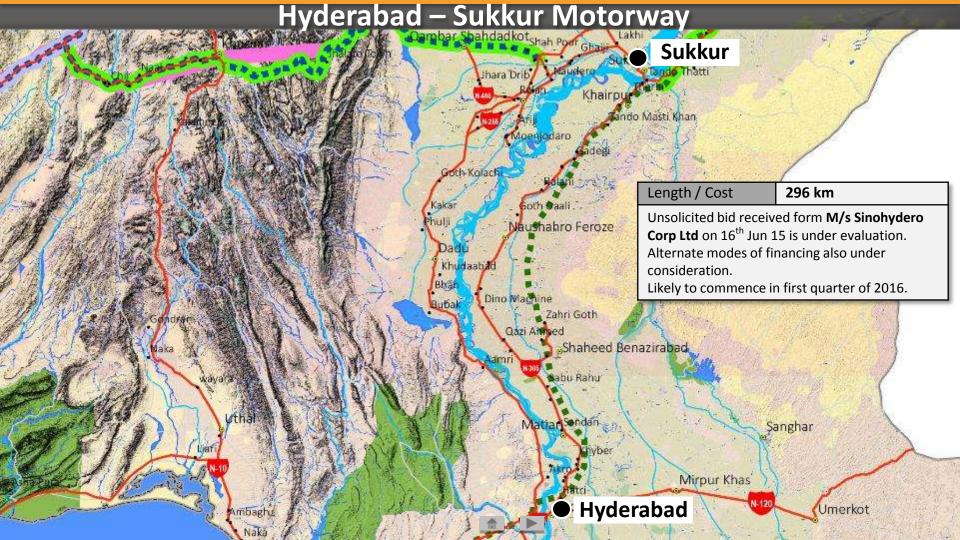












#### M-6 – Introduction

- M-6 Sukkur Hyderabad Motorway is proposed to be a world class six-lane access controlled high speed motorway with a track length of 296 kilometers (the Project);
- Earlier, the transaction structuring modality of the Project was agreed upon the Build-Operate-Transfer (BOT) type of Public Private Partnership (PPP);
- Now M/s Sino Hydro Corporation (the Proposer) wishes to undertake the Project on 'Deferred Payment' basis;
- 'Deferred Payment' is a mechanism whereby the Proposer, in the capacity of EPC contractor, shall construct M-6 as per the Technical Parameters provided in the Proposal and shall charge interest from GOP/NHA for delaying the payments;



 The Proposer expects GOP/ NHA to provide 15% advance/ upfront while 85% of the EPC cost shall be financed by the Commercial Lender.

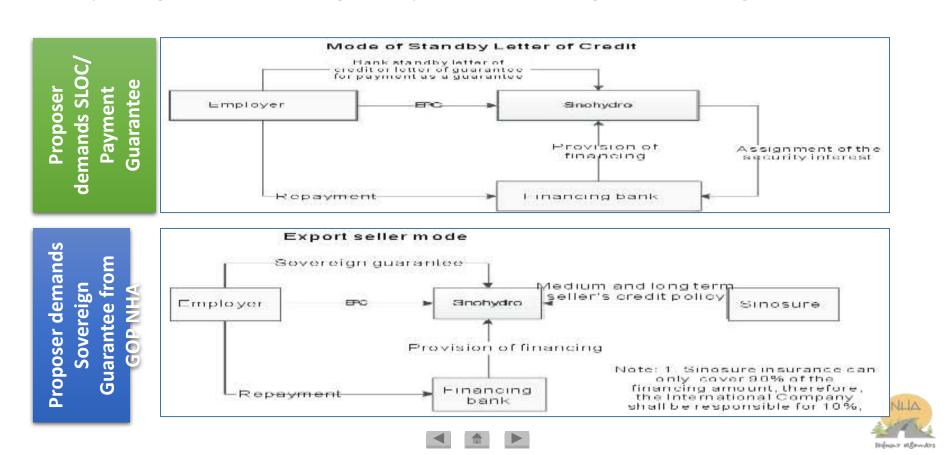






## M-6 – Financing Realization Options

The Proposer gives the following two options for realizing 85% financing of the EPC cost:



#### M-6 – Financials

The Proposer gives the following options to undertake the financing and construction of the Project:

Construction phase (3 years)

Operational/ repayment phase (7 or 12 years)

Option	EPC cost: (a)	GOP/ NHA upfront payment (15% of EPC cost): (b)	GOP/ NHA deferred payment (six- monthly)	GOP/ NHA deferred payment entire period: (c)	Total GOP/ NHA outflow: (d) = (b) + (e)	Interest cost to the GOP/ NHA: (e) – (a)	Financing cost to GOP /NHA (USD based)
	Million USD						
Six-lanes 3 + 12 years	2,205	331	148	3,553	3,884	1,678	6%
Six-lanes 3 + 7 years	2,205	331	190	2,654	2,985	780	2%
Four-lanes 3 + 12 years	1,772	266	119	2,855	3,121	1,349	6%
Four-lanes 3 + 7 years	1,772	266	152	2,133	2,399	627	2%









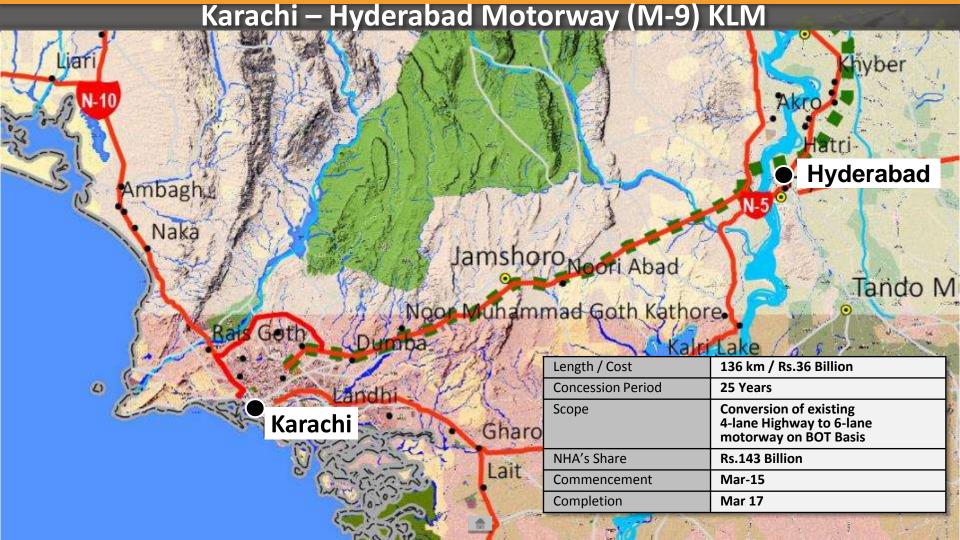
## M-6 – Risk Profile

#### The Project Risk Profile is as follows:

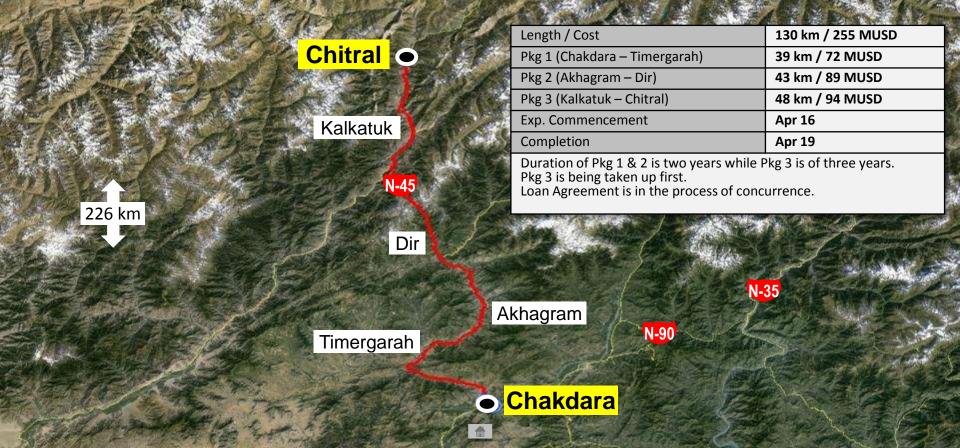
Risk	Transferred to the Proposer	Retained by GOP/ NHA	Consideration	
Project cost/time overrun risk	Yes	No	The Proposal is silent on it; but If the Proposer has demanded advance/ upfront (15%) + fixed deferred payments then this risk should be borne by the Proposer	
Operational risk (revenue and operational costs)	No Yes		As it is 'Deferred Payment' transaction	
Financing risk Yes		No	Change in cost of financing etc. if the arrangement is such that the computed periodic deferred payments are fixed this risk should be borne by the Proposer	
Foreign exchange risk	No	Yes	As the deferred payments are denominated in USD	
Political (direct and indirect) and non-political	No	Yes	As it is 'Deferred Payment' transaction	
Change of law	No	Yes	- Do -	

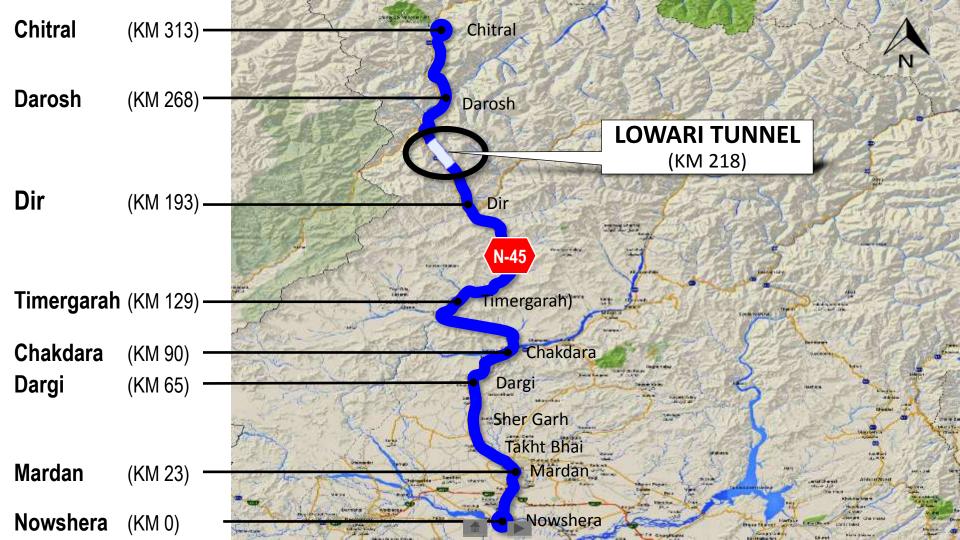






# Rehab & Imp. of Chakdara – Chitral Section (N-45) Through Korea EXIM Bank Financing

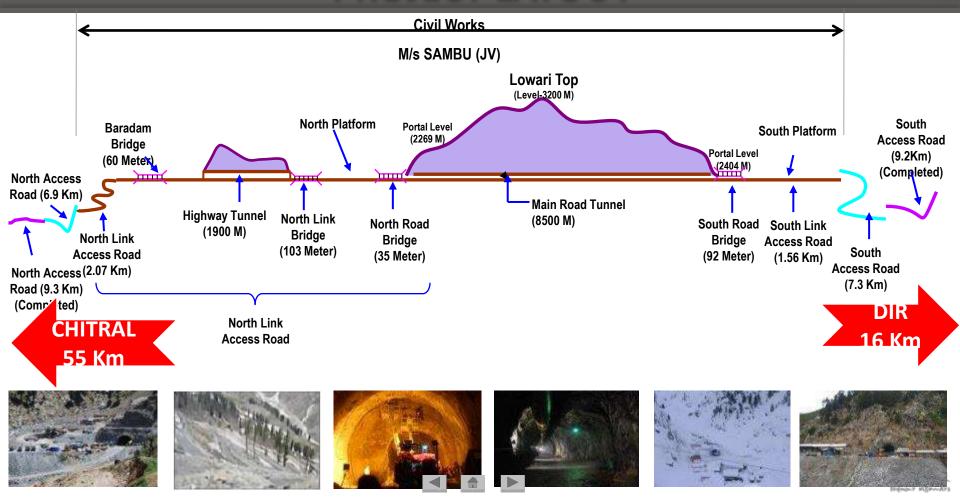




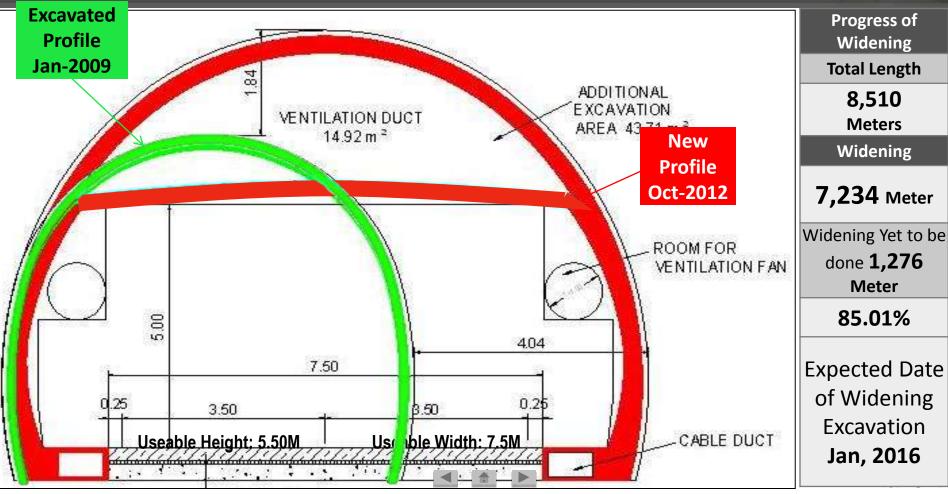
## SALIENT FEATURES

Total Project Length	46 km: Two Tunnels (8.5km & 1.9km), Access Roads & 12 bridges (35.6km)				
Original PC-I	Rs 7,983 Million				
1 <sup>st</sup> Revised PC-I (Approved by ECNEC on 11 <sup>th</sup> Nov, 2011)	Rs 18,182 Million				
2 <sup>nd</sup> Revised PC-I (Under process with ECNEC)	Rs 26,954 Million				
Expenditure incurred to date	Rs 12.586 Billion				
Consultant	M/s Geoconsult – Typsa (JV)				
Contractor	M/s SAMBU (JV)				
Date of Commencement	September, 2005				
Completion of project	October, 2017				
Original Contract Cost	Rs 5,428 Million				
Revised Contract Cost as per V.O No.6	Rs 9,816 Million (80.72% Increase)				
Accumulative Progress Achieved	55%				

#### **PROJECT LAYOUT**



#### **MODIFIED TUNNEL PROFILE**



Widening **Total Length** 

**Progress of** 

8,510

Meters

Widening

**7,234** Meter

done **1,276** Meter

85.01%

**Expected Date** of Widening Excavation Jan, 2016

# WORK PROGRAMME MODIFIED ROAD TUNNEL

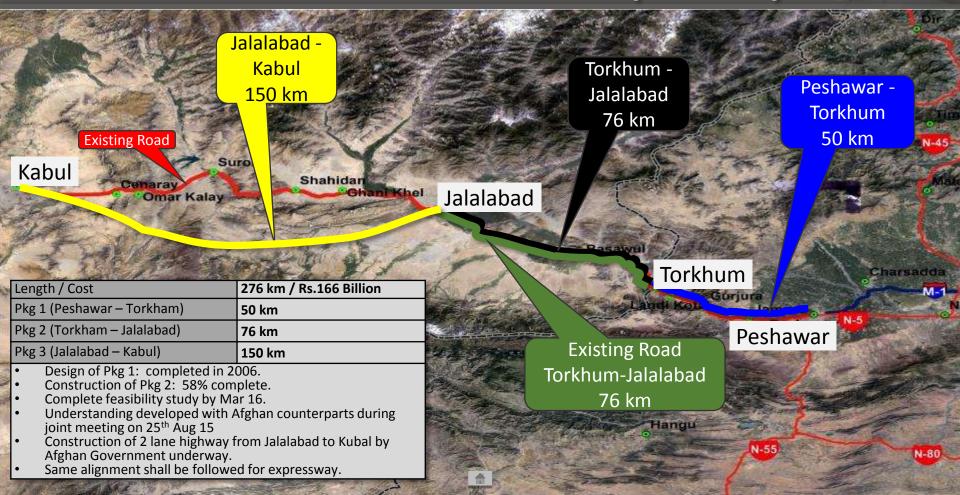
Sr. No	Month	Commencement Date	Expected Completion Date
1	Widening Excavation	October, 2012	January, 2016
2	Smooth Shotcrete	March, 2015	April, 2016
3	Water Proofing Membrane & Geotextile	June, 2015	April, 2017
4	Concrete Lining	September, 2015	June, 2017
5	Intermediate Ceiling	February, 2016	July, 2017
6	Main Drainage & Cable Trench Works	September, 2014	August, 2017
7	Rigid Pavement	January, 2017	October, 2017



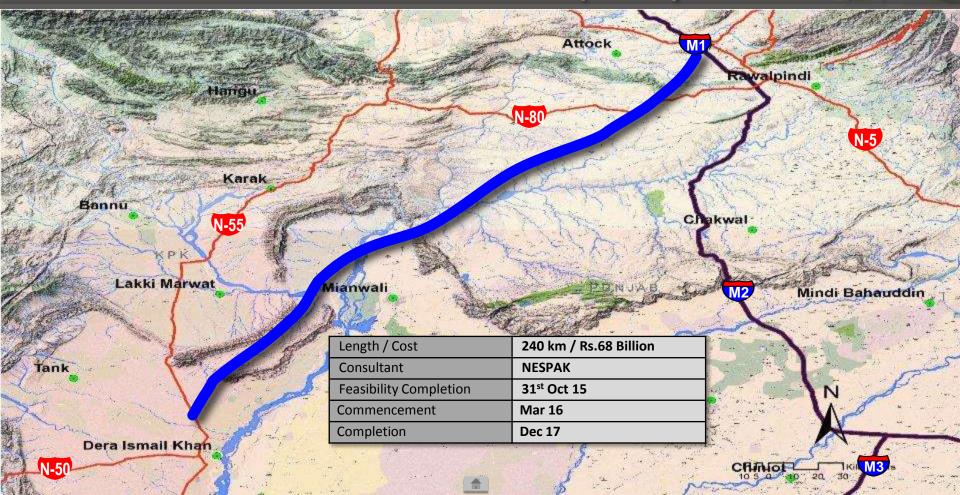


## Additional Carriageway Torkham – Jalalabad 74 km / Rs.7.34 Billion Length / Cost Commencement **Jan 07 Jalalabad** Re-Commencement **Jul 15** Completion Sep 16 **Progress** 58% Afghanistan **Torkham** Pakistan

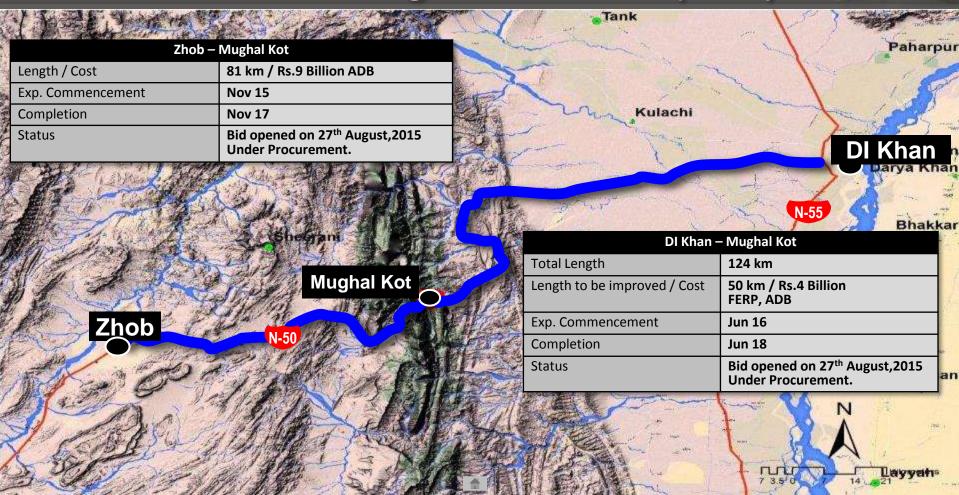
### Peshawar – Kabul 4 Lane Expressway



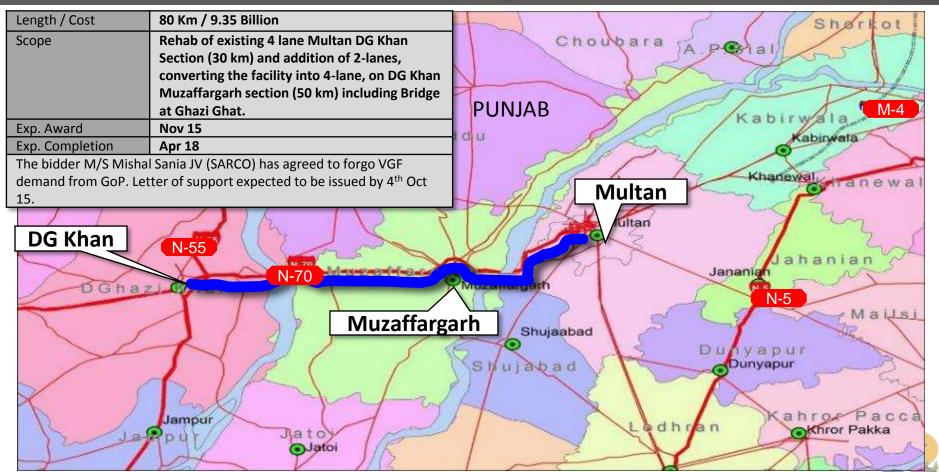
## **Burhan – DI Khan (CPEC)**



# DI Khan – Mughal Kot – Zhob (N-50)



# Multan – Muzaffargarh – DG Khan

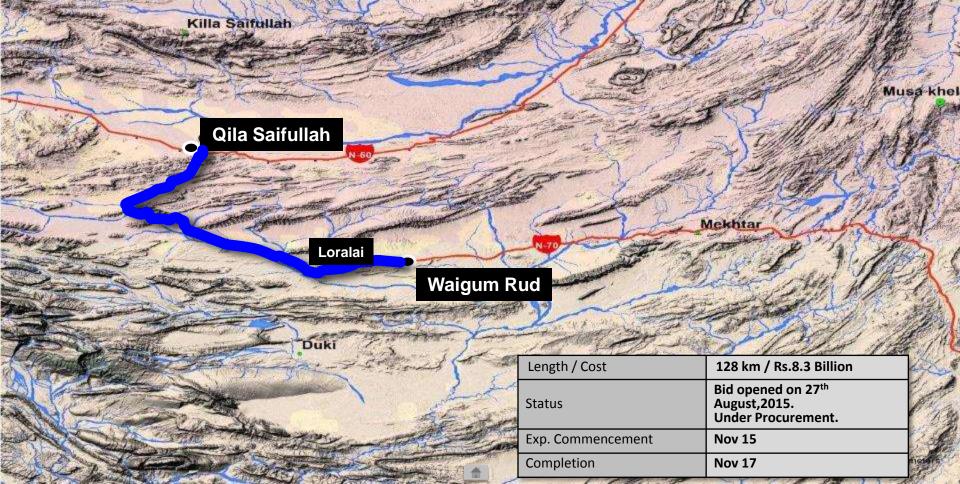




#### **Western Corridor**

From	То	Distance (Km)	Status	Remarks
Burhan	D.I. Khan	280	Feasibility in Process	Land Acquisition 10 Billion in PSDP. Project to be financed by GoP
D.I.Khan	Mughalkot	124	Existing road being improved under ADB Finance	Request for additional carriage
Mughalkot	Zhob	81	Existing road being improved under ADB Finance	way under CPEC short term
Zhob	Quetta	331	Completed	(536 Km)
Quetta	Surab	211	Completed	Additional carriage way planned under CAREC Program
Surab	Surab Hoshab 449 Construction In Progress		Common Section	
Hoshab	Gwadar	193	Construction In Progress	Common Section
	Total	1,669	Total distance from Khunjrab to Gwadar throug	h Western Corridor is 2,453 Km.

# Qila Saifullah – Waigum Rud (N-70)



# JICA Funded Up-gradation of Rakhi Gaaj – Bewata Section (N-70)

Length / Cost	32.6 km /	23.5 Billion including JICA Grant 16.51 Billion JPY (Rs.15.93 Billion)
---------------	-----------	--

Pkg 1 11.6 km JICA funded (Specialized bridges) / (GoP Component Rs.2.16 Billion)

20.75 km GoP funded (Conventional road) / Rs.5.4 Billion

Jan 16

Jan 19

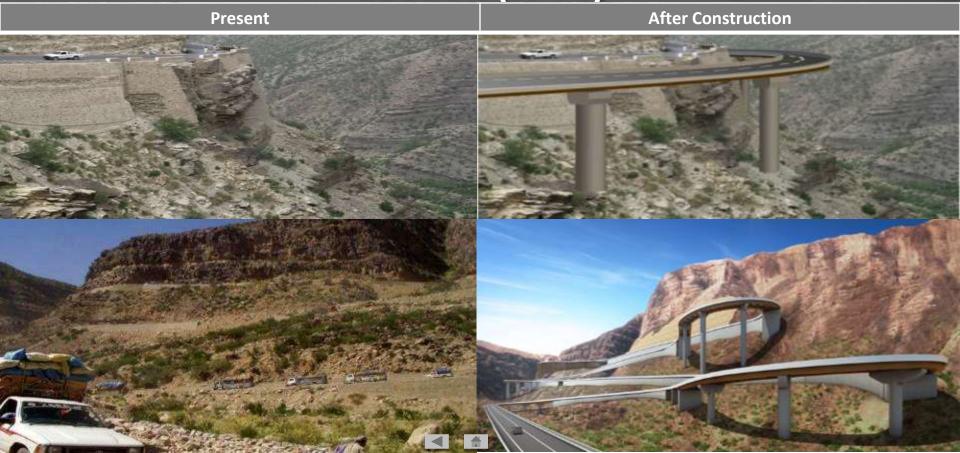
Pkg 2

Completion

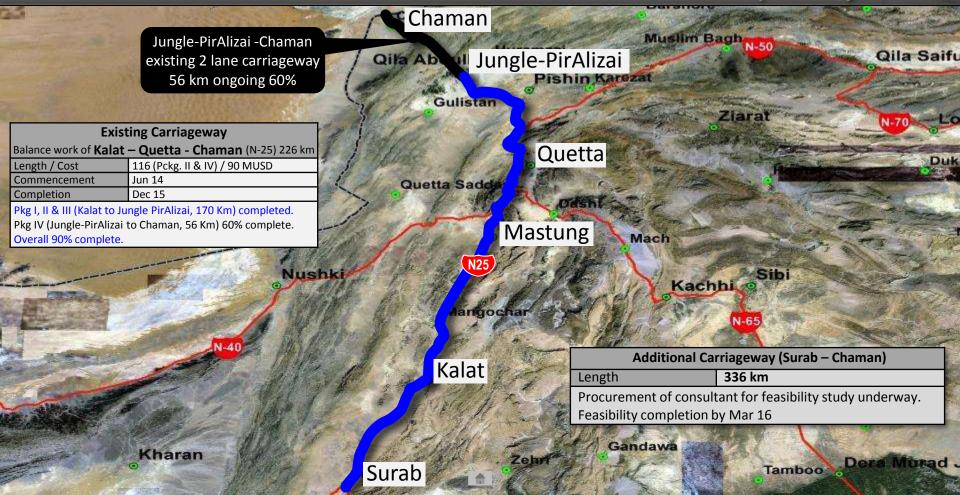
Exp. Commencement



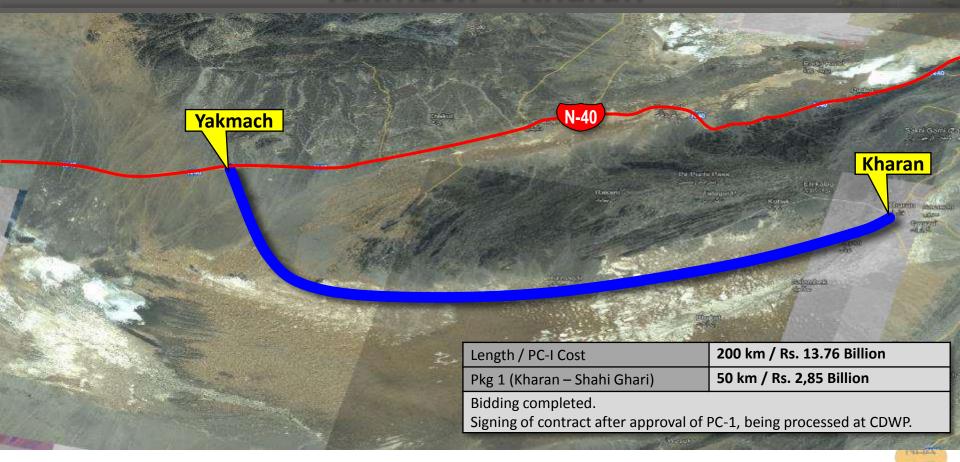
# JICA Funded Up-gradation of Rakhi Gaaj – Bewata Section (N-70)



### **Dualization of Surab – Chaman Section (N-25)**

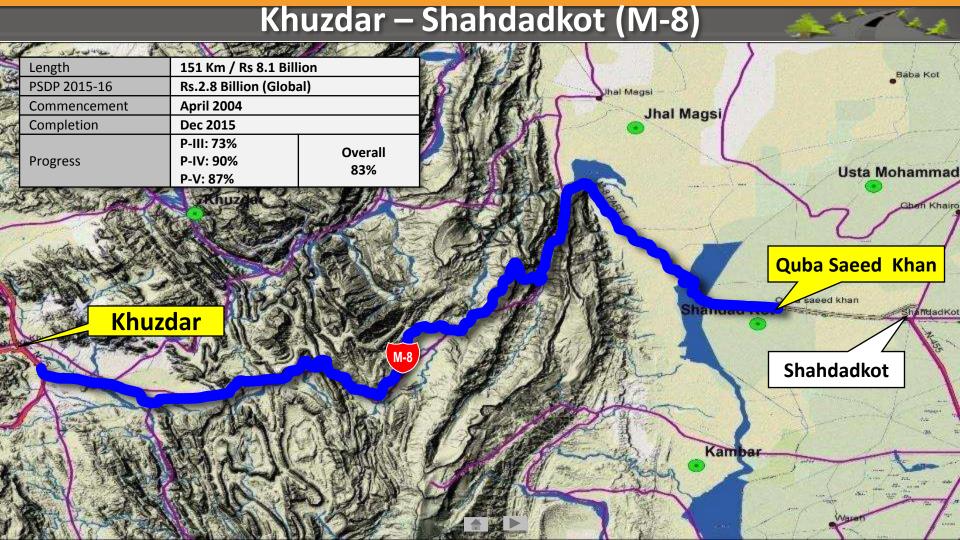


# Yakmach - Kharan



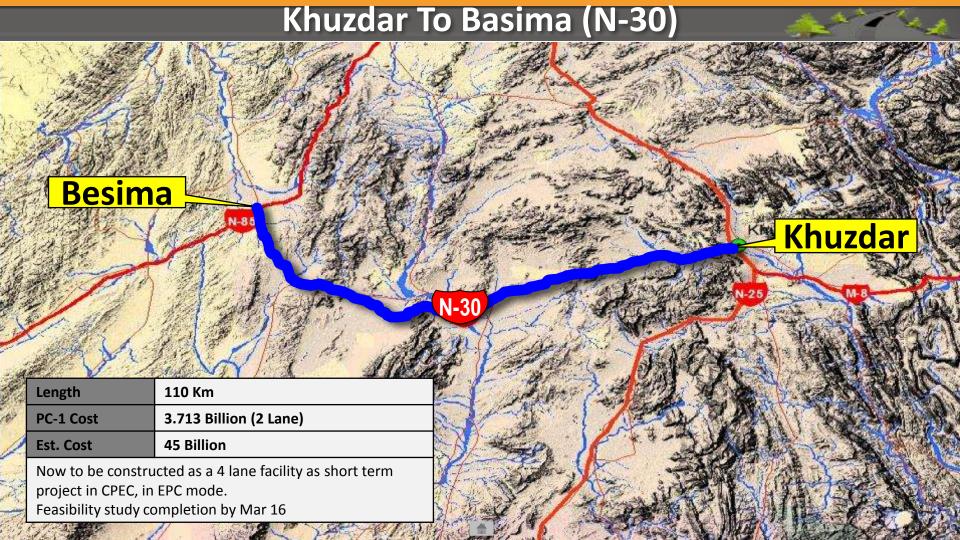






#### M-8 Khuzdar-Shahdadkot (Khori - Quba Saeed Khan Section) 151 Km

Description	Khuzdar-Shahdadkot: Package-III (Khori to Wangu Hills)	Khuzda- Shahdadkot: Package-IV (Wangu Hills)	Khuzdar-Shahdadkot: Package-V (Wangu Hills to Quba Saeed Khan)
Length of Project	51.1 KM	42.5 KM	57.5 KM
Contractor	M/s AM – NAZIR (JV)	M/s SMADB	M/s FWO
Contract Cost (Original)	Rs. 1,116 M	Rs. 525 M	Rs. 1,929 M
Contract Cost (Revised)	Rs. 2,129 M	Rs. 2,902 M	Rs. 3056 M
Date of Commencement	Oct – 2004	Apr – 2004	June 2006
Date of Completion (Org)	Oct-2006	Apr-2006	June-2009
Date of Completion (Revised)	Dec-2015	Dec-2015	Dec-2015
Progress Todate:	73%	90%	87%





# Hoshab – Panjgur – Nag – Basima – Surab (N-85)

Length	459 km
PC-I Cost	Rs. 22.412 Billion (ECNEC on 22-10-07)
PSDP Allocations	(2015-16) Rs. 2.5 Billion
Consultant	M/s NESPAK
Contractor	M/s FWO
Contract Cost	Rs 17.452 Billion
Date of Start	10 Sep 07
Date of Completion	Dec 16
Overall Progress	50%

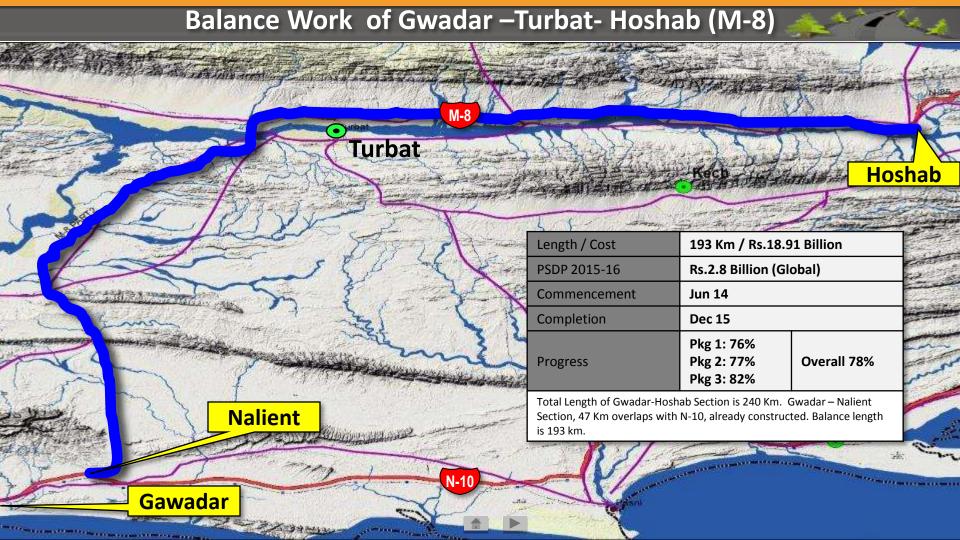
N-85 is divided in following four sub sections.

Section	Length	Progress
Sorab-Basima, Section-I	90 Km	27.0%
Basima-Nag, Section-II	91 Km	22.8%
Naag-Panjgur, Section-III	130 Km	86.9%
Panjgur-Hoshab, Section-IV	148 Km	57.5%

Note: Presently Section III is being given priority for early completion







## Gwadar – Turbat – Hoshab (M-8)

Description	Gwadar-Turbat Pakage-IIA (Nalient-Dasht)	Gwadar-Turbat Pakage- IIB (Dasht-Turbat)	Turbat-Hoshab Section		
Length	53.60 km	63.45km	76.25 Km		
Commencement Date	2004	2004	2004		
Expenditures	1.43 Billion	2.35 Billion	2.1Billion		
Progress	60%	66%	65%		
Contract terminated due to poor Law 8	de Order situation.				
	Baland	ce Work			
Contractor	M/s FWO	M/s FWO	M/s FWO		
Consultant	M/s LRA Group	M/s LRA Group	M/s LRA Group		
Cost	4 Billion	4.221 Billion	4.810 Billion		
Date of Commencement	Date of CommencementJune, 2014June, 2014June, 2014				
Date of Completion	Dec,2015	Dec,2015	Dec,2015		
Progress (Cumulative)	76%	77%	82% NUA		

# **Existing National Highways Network**

Sr No	Doute No	Dood Description		Length in Kilometers			
Sr. No.	Route No.	Road Description	Motoway	Expressway	Highway		
1	N-5	Karachi-Lahore-Peshwar-Torkham	-	-	1819		
2	N-10	Makran-coastal; liari-Ormara-Gwadar-Jiwani	-	-	653		
3	N-15	Mansehra-Naran-Jalkhad	-	-	240		
4	N-25	Karachi-Kalat-Quetta-Chaman	-	-	813		
5	N-30	Basima – Khuzdar	-	-	110		
6	N-35	Hassanabdal-Thakot-Khunjrab	-	-	806		
7	N-40	Lakpass-Dalbandin-Taftan	-	-	610		
8	N-45	Nowsehra-Dir-Chitral	-	-	309		
9	N-50	Kuchlack-Zhob-D.I.Khan	-	-	531		
10	N-55	Kotri-Larkana-D.G.Khan-D.I.Khan-Peshawar	-	-	1264		
11	N-65	Sukkur-Sibi-Quetta	-	-	385		
12	N-70	Multan-D.G.Khan-Loralai-Qali Saifullah	-	-	447		
13	N-75	Islamabad-Satra Mile-Lower Topa-Kohala	-	54			
14	N-80	Tarnol-Fateh Jang-Jand-Khushal Garh-Kohat	-	-	146		
15	N-85	Hoshab-Panjgur-Nag-Baseema-Sorab	-	-	487		
16	N-90	Khwazakhela – Besham	-	-	64		
17	N-95	Chakdara – Kalam	-	-	135		
18	N-105	Larkana - Naudero – Lakhi		-	61		
19	N-110	Gharo - Keti Bunder	-	-	90		









# **Existing National Highways Network**

Sr. No. Route N	Davida Na	Read Description	Length in Kilometers			
	Route No.	Road Description	Motorway	Expressway	Highway	
20	N-120	Hyderabad - Mirpukhas - Khokhrapar	-	-	220	
21	N-125	Taxila - Khanpur – Hairpur	-	-	44	
22	N-155	Larkana - Moenjo Daro Road	-	-	28	
23	N-255	Larkana - Nasirabad via RasheedWagan	-	-	34	
24	N-305	Sakrand - Shaheed Benazirabad	-	-	35	
25	N-455	Larkana - Kamber – Shahdadkot	-	-	50	
26	N-655	Ratodero - Naudero Road	-	-	18	
27	S-1	KKH-Skardu Road (Strategic Road)	-	-	167	
28	S-2	Kohala-Muzaffarabad	-	-	40	
29	S-3	Muzaffarabad – Chakothi	-	-	55	
30	M-1	Islamabad-Peshawar Motorway	155	-	-	
31	M-2	Lahore-Islamabad Motorway incl. 32 Km	367	-	-	
32	M-3	Pindi Bhattian-FaisalabadMotorway	53	-	-	
33	M-4	Faisalabad - Khanewal - Multan 241	115	-	-	
34	N-5A	Khanewal – Lodhran	-	-	102	
35	M-8	Gwadar-Hoshab-Khuzdar-Ratodero	-	-	436	
36	M-9	Karachi-Hyderabad Motorway	-	-	136	
37	M-10	Karachi Northern Bypass	-	-	57	
38	-	Layari Expressway	-	39	-	
		Total (Current National Highways)	690	93	10392	



# **Planned 2015-17**

Sr. No. Route	Doute No	outs No. Bood Description	Length in Kilometers			
	Koute No.	Road Description	Motoway	Expressway	Highway	
1	KLM	Hyderabad – Sukkur	296	-	-	
2	KLM	Sukkur - Multan	387	-	-	
3	KLM	Abdul Hakeem – Lahore	230	-	-	
4	E-35	Burhan - Havalian	60	-	-	
5	CPEC	Havalian - Thakot	39	-	81	
6	M-4	Gojra - Khanewal	124	-	-	
7	SLM	Lahore - Sialkot	-	91	-	
8	-	Yakmach - Kharan	-	-	200	
9	CPEC	Islamabad – DIKhan	-	210	-	
10	M-9	Karachi - Hyderabad	136	-	-	
11	MMM	Muzaffarabad – Mangla - Mirpur	-	174		
		Total (Planned 2015-17)	1,272	475	281	