

**PAKISTAN RAILWAYS AS
AFFECTED BY FLOODS
AS ON 06.09.2010**

PAKISTAN RAILWAYS (PR) AT A GLANCE;

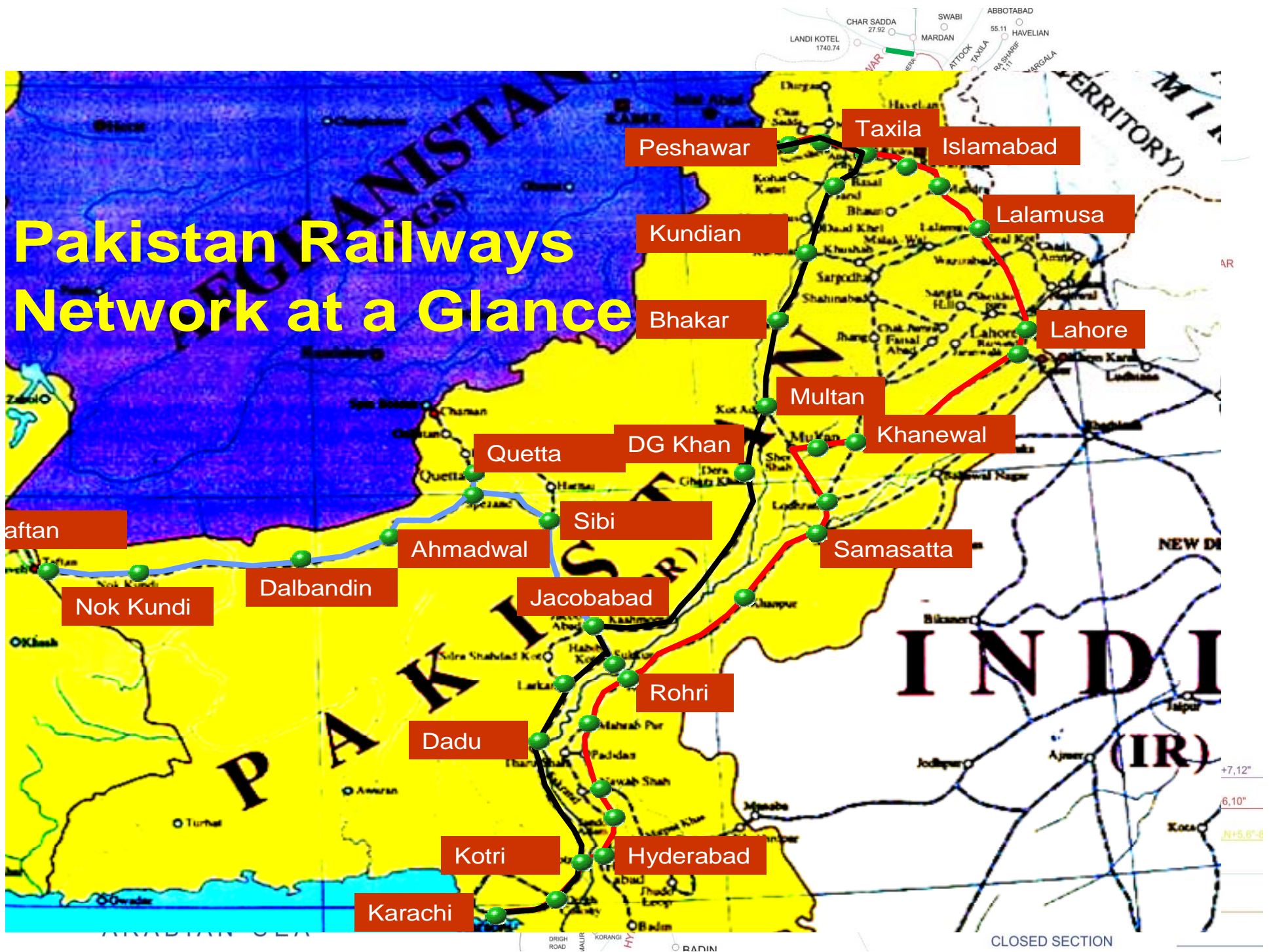
A NETWORK CONNECTING ALL MAJOR CITIES AND
BUSINESS HUBS OF THE COUNTRY.

Route Km	=	7791;
Railway stations	=	560
Daily Passengers trains	=	222
Daily Freight Trains	=	52
Passengers carried	=	Rs. 83 million

(2008-09)

Tons of freight carried	=	Rs. 07 million
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Pakistan Railways Network at a Glance



CLOSED SECTION

IMPACT OF FLOOD

29-07-2010

Peshawar Division (KPK + Punjab)

- ❖ KPK; Landi kotal, Torkham (LKL) – Peshawar (PSC)

- ❖ 60 km,

- ❖ Protection of 10 bridges washed away.

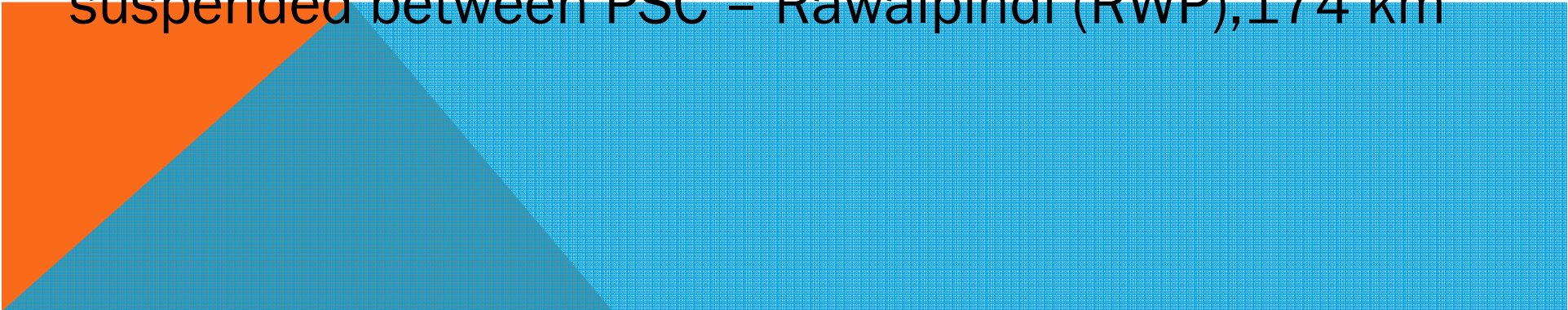
- ❖ Bridge # 427 (18 X 25) complete washed away

- ❖ Breaches in track over 10 km

- ❖ Embankments washed away over 8 km.

- ❖ Walls & retaining walls eroded completely on several locations.

PSC – Nowshera (NSR); 43 km; Main Line

- 18 breaches over 10 km, Nasirpur (NPP)-Pabbi (PBI)
 - Protection works on 9 bridges damaged.
 - Station buildings Pir Pia (PII) & NPP damaged partially
 - Section closed 29-07-2010 – 01-08-2010, 4 days
 - Quetta Express, Awam Express, Lahore Passenger, Khushal Khan Khattak Express, Khyber Mail suspended between PSC – Rawalpindi (RWP), 174 km
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Jand (JAD) – Kohat (KHCT); 61 km Branch Line

- 2 bridges damaged
- Section closed from 29-07 to 03-08-2010, 6 days
- 1 Up/Dn passenger train suspended

PSC Division (Punjab)

- Attock City (ATCY)- Kundian (KDA) branch line, 194 km
- Land sliding between Kanjur (KUJ) – Jalhar (JRN); 10 Km,
- Section closed on 28-07-2010, 01 day
- Thal Express, Mehr Express, Multan mixed train suspended/diverted.

Cost of damages to infrastructure = Rs. 1600.00 million

RWP DIVISION (PUNJAB + KPK)

KPK;Taxila (TXLC)–Havelian (HVN); 55 Km Branch Line

- Rain water topped the railway track over 4 km
- Breaches at 01 km length
- Bridge # 43, wing walls eroded and fell down.
- Bed of bridge # 43, 60 eroded.
- Piles of bridge # 03 & 07 exposed.
- Traffic suspended on 28-07-2010, restored on the same day.

Punjab, Chaklala – Gujar Khan, 50 km Main Line

- Erosion of embankments
- 05 bridges damaged

- Flood in Jehlum affected Malikwal (MKW) – Haranpur (HNP) 10 km Branch Line
- Section closed from 29-07 to 01-08-2010 4 days.
- Khushab (KHB) – Wegowal (WGWL) 25 km remained closed due to flood in Jehlum from 29-07 to 05-08-2010, 08 days, Branch Line
- Rain water overtopped Quaid-Abaad (QDG) – Mithatiwana (MTW), 20 KM closed 29-07 to 30-07-2010, 02 days, Branch Line.
- 4 bridges on MKE-Shahinabad (SHND), 94 km Branch Line damaged.

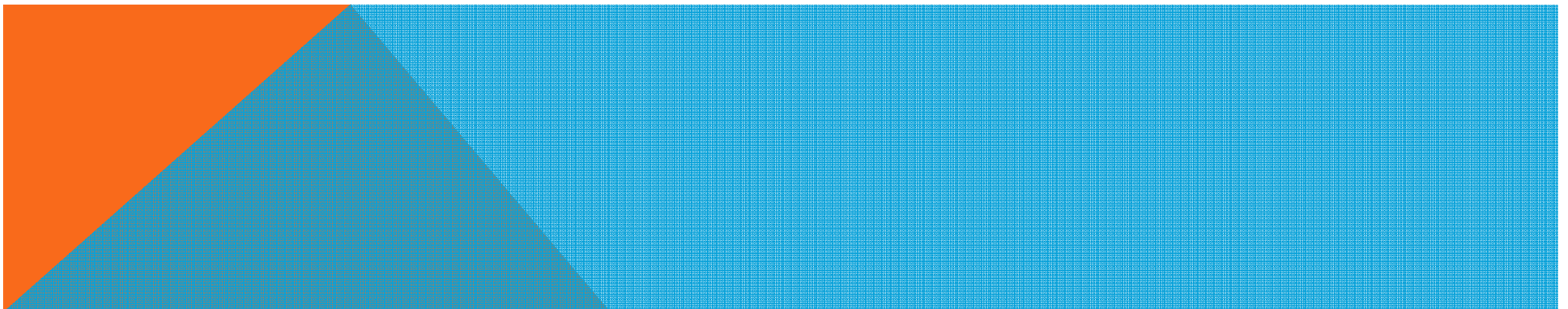
Cost of damages to infrastructure = Rs. 100.00 million

LAHORE DIVISION (PUNJAB)

- South mole head of Alexendra Bridge at Wazir Abad (WZD) on Main Line & mole heads at bridges # 132 & 134 at Chiniot, on River Chinab on Faisalabad-Sargodha (100 km) damaged.
- The South Bell Band and North Bell Band and J-spur of bridge # 08 (15 X 97) Main Line on River Ravi damaged.
- Track over 4 km on Norowal (NWL) – Sialkot (SLK) Section, Branch Line (62 km) remained submerged.
- Traffic suspended from 20-07-2010 to 21-07-2010, 02 days and 27-07-2010 to 06-08-2010, 11 days.

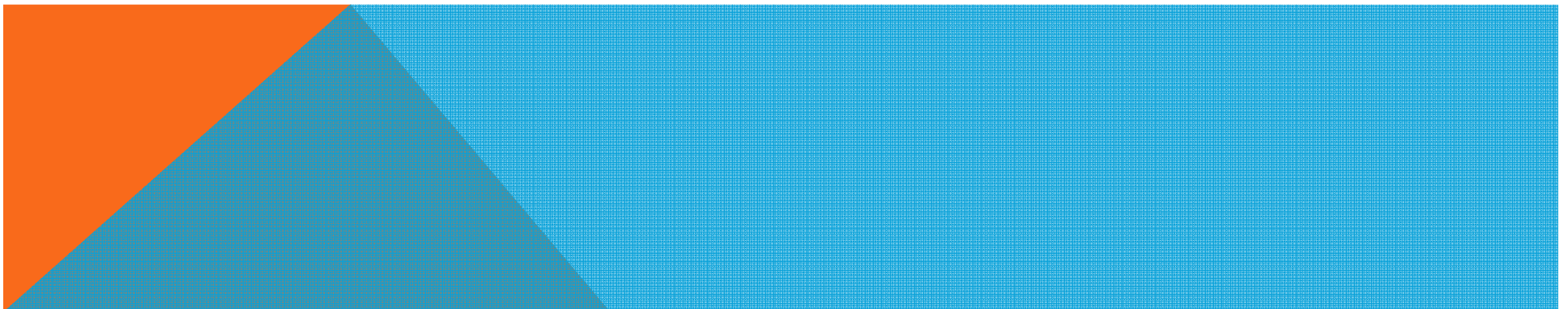
- A number of express/intercity/passenger trains suspended.
- Flood water over topped at 09 locations on Shahdra (SDR)- NWL 79 Km & NWL-Sialkot Sections.
- Erosion of track banks & ballast

Cost of damages to infrastructure = Rs. 150.00 million

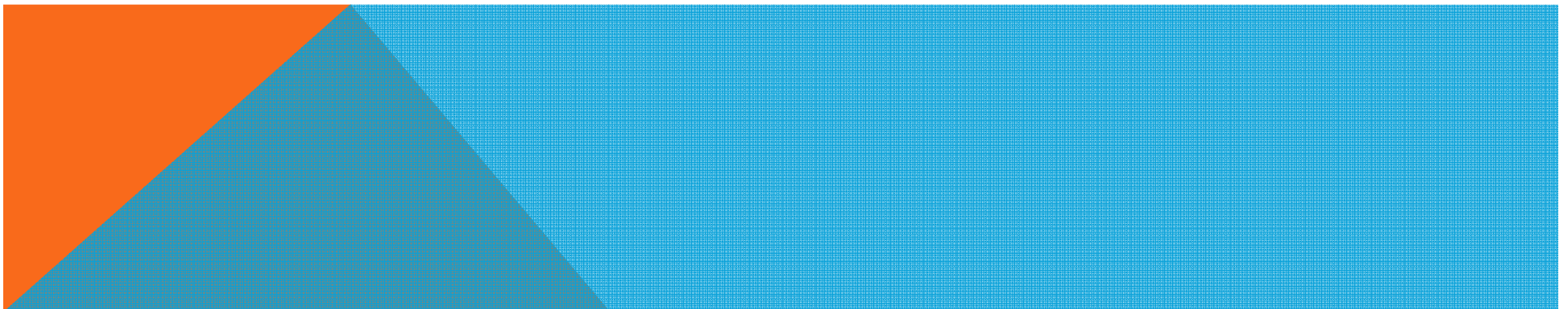


MULTAN DIVISION (PUNJAB)

- Shershah(SSH)-KDA, 300 km Branch Line
- Budh (BVD)- Kot Addu (ADK)- Dira Din Panah (DNP) 55 km inundated on 03-08-2010 due to breaches in left marginal bund of Taunsa Barrage (TBQ) & subsequent breaches in Taunsa – Panjnad link canal and Muzafargarh (MZG) Canal.
- 40 breaches, cumulative length, 3 km
- Repair work started on 25-08-2010



- 5 breaches, 2002 long on DNP (ADK) 10 km repaired and section opened for traffic on 05-08-2010.
- 8 breaches on ADK – MZG, 15 km repaired. Work in progress.
- ADK-TBQ 10 km branch line; 20 breaches, 3493 ft. 10 breaches, 606 ft repaired as on 02-09-2010. work in progress.

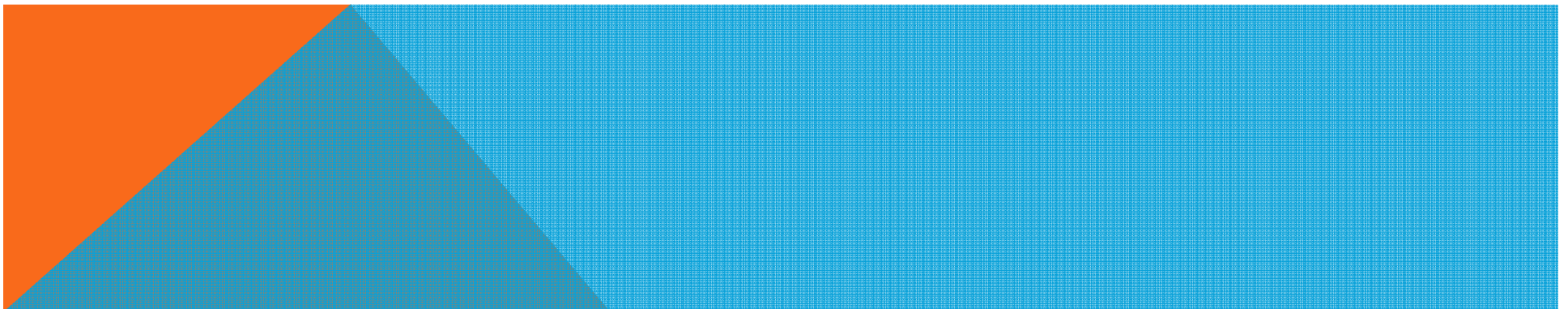


ADK – DGK Kashmor (KZLC) Jakobabad (JCD), 77 km
Branch Line

- Bridge # 961 (1 X 60ft), silt ejector of MZG Canal, all 4 wings walls washed away. Breaches on the encroaches of the bridge 600 x 20 & 200 x 10 ft. Stagnant water being removed by the labour.
- Breaches at km 156, 157 & 164 were repaired but again caused at KM # 157 (60 x 10ft) near Wali Mazari Station. Repaired on 26-08-2010.

- Spill of River Indus along the track at KM 357-358 & 392-93 at Yaru Khosa and Shadan Lund stations.
- Khushal Khan Khattak Express diverted. Trains terminated at Kot Sultan (KTS), 55 km short of ADK on KDA – SSH (303 km).
- Distance from PSC to KYC via this route is 1414 km.

Cost of damages to infrastructure = Rs.1000.00 million

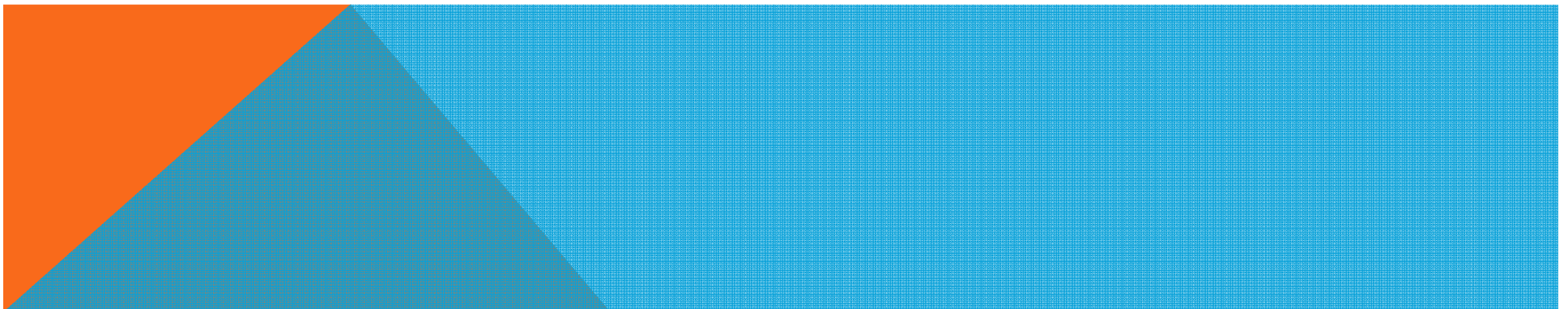


SUKKUR DIVISION (SINDH + PUNJAB)

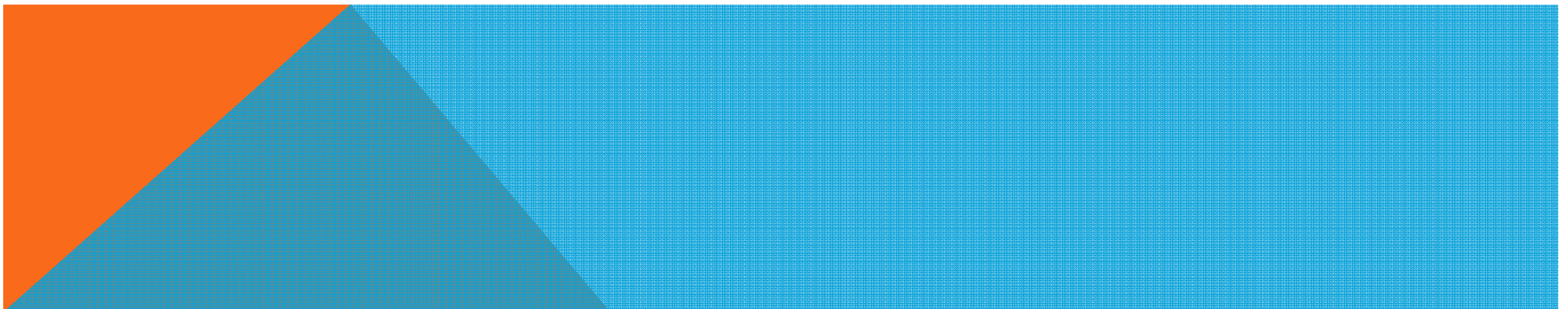
Embankment of the Main Line track between ROH- Khanpur 212 km partially eroded, settlement of track especially at the approaches of bridges # 239 & 250

Rohri (ROH)- Sibi (SIB), 244 Km, Branch Line

- Spill of River Indus overtopped track between Shikarpur (SHP)- JCD, 45km long, at km 48 to 67
- On 15-08-2010, local administration made 5 cuts between km 50 to 55
- 12 breaches, 1100ft



- Restoration work started on 28-08-2010 but stopped by local administration, for SHP & to wait for repair of Tori Bund.
- Repair work started from SHP end on 02-09-2010
- Track submerged from km 61 to 62, Abad (AAD)- JCD 16 km long.



- Breaches in the right protection bund of Soomra Canal, railway track, JCD – Dera Allahyar (DAHR), 13 km long, at km 89-97 upto Mangoli (MLE), 13 km away from DAHR, still under water, 5ft deep
- Track at km 187 between Bakhtiar Abad Donki (BKDK)- Damboli (DMB), 12 km long breached on 22-07-2010. Traffic restored on 28-07-2010, after 6 days.
- Track again breached on Sultan Kot (SOK) – AAD, 15 km long, on 09-08-2010, but repaired on 10-08-2010.
- Bolan Mail, Jafar Express, Quetta Express suspended.

JCD- KZLC, 124 km Branch Line

- Breach in Tori Bund, Thul Nao (THLN) – Kandh Kot (KXZ) 44 km long, THLN – Haibat Shaheed (HTS) 25 km long, track submerged, 1-4ft deep from km 8 to 72. 2 cuts at km 6 & 8 by local administration.
- Khushal Khan Khattak Express suspended/diverted since 02-08-2010

Habib Kot (HBKJ)- Larkana (LRK), 62km Branch Line

- Track HBKJ – Madeji (MJI) 30 km long affected by flood water
- Track is safe but stagnant water on either side.
- Khushal Khan Khattak Express, Bolan Mail, Kotri Mixed suspended.

Cost of damages to infrastructure = Rs.800.00 million

KARACHI DIVISION (SINDH)

Main Line;

- Embankment, Hyderabad (HDR)- Kotri (KOT), 9 km long, affected.
- Bridges # 32, 51, 53, 66, 85, 196 damaged. Rain water accumulated at km 140 -150
- Station yards at KYC Cantt, HDR & Tando Adam submerged.

Branch Line, KOT- DDU, 180 km

- The track at km 7, 9, 54, 34-50, 27-30, 48-49, 34-43, 20-20 & 14-19 badly overtopped by flood water. 3 Stations Yards submerged.
- Embankment at km 43, 41, 3-4, 40, 20, 14-19 eroded from both sides
- 07 Station buildings partly damaged

- Bolan mail, Qalandar Express & a Passenger train suspended.
- Restoration work completed & track opened for traffic from 04-09-201

Cost of damages to infrastructure = Rs. 600.00 million

QUETTA DIVISION

- Bridge No.18 Q (7x100' girder) on Nari River under threat. River training works on upstream to make the flow central to be rebuilt.
- Sibi-Harnai section, embankments (10 Km) washed away. Piers at abutments of 6 bridges washed away requiring re-building.
- Protection work, 3 Km washed away.
- Bolan Express, Jaffar Express, Quetta Express suspended.

*Cost of damages to infrastructure = Rs. 1000.00
million*

COST OF DAMAGES TO RAILWAY

INFRASTRUCTURE

<i>S #</i>	<i><u>Division</u></i>	<i><u>Rs. in Million</u></i>
<i>1</i>	<i>Peshawar (KPK)</i>	<i>1600.00</i>
<i>2</i>	<i>Rawalpindi (Punjab)</i>	<i>100.00</i>
<i>3</i>	<i>Lahore (Punjab)</i>	<i>150.00</i>
<i>4</i>	<i>Multan (Punjab)</i>	<i>1000.00</i>
<i>5</i>	<i>Sukkur (Sindh)</i>	<i>800.00</i>
<i>6</i>	<i>Karachi (Sindh)</i>	<i>600.00</i>
<i>7.</i>	<i>Quetta (Balochistan)</i>	<i>1000.00</i>
	<i>Total</i>	<i>5250.00</i>

LOSS ON ACCOUNT OF SUSPENSION OF
TRAINS
(INDIRECT COSTS)

*Suspension of passenger services in Railway Divisions,
Peshawar, Sukkur, Multan & Quetta (19 sets of train
from 23.7.10 to 2.9.10) = Rs.361.971 million*

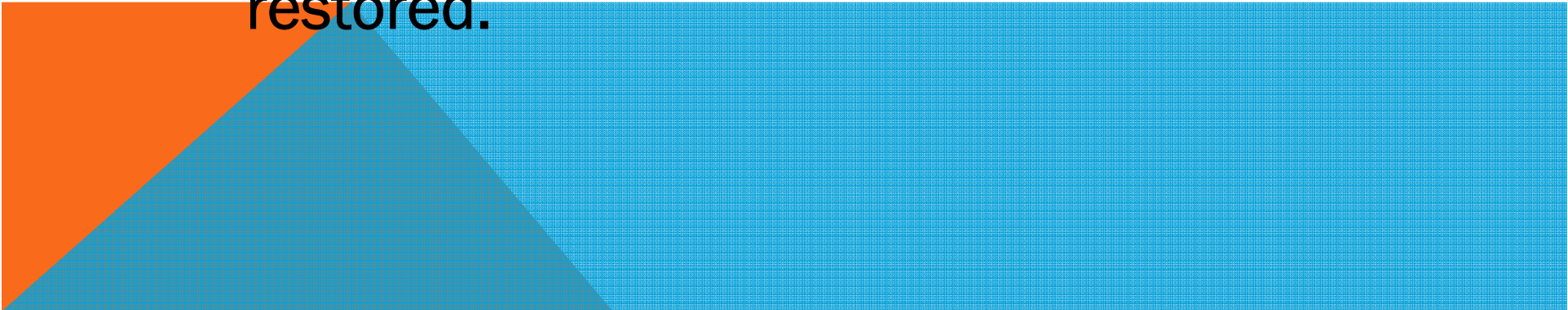
*Suspension of goods trains on Sibi-Rohri, Mahmood
Kot Oil Terminal, Goods in
Transit for Afghanistan (GITA) and cement traffic via
Shershah / Kot Adu / Kundian = Rs.460.00 million*



COST OF DAMAGES AS ON 06.09.2010

- Director cost
(Infrastructure) = Rs. 5250.00 million
 - Indirect cost (suspension)
of train services = Rs. 822 million
- Total = Rs 6,072.00 million

The figure will be firmed up after detailed assessment of damages once the water recedes and normal trains operations are restored.



RELIEF OPERATION

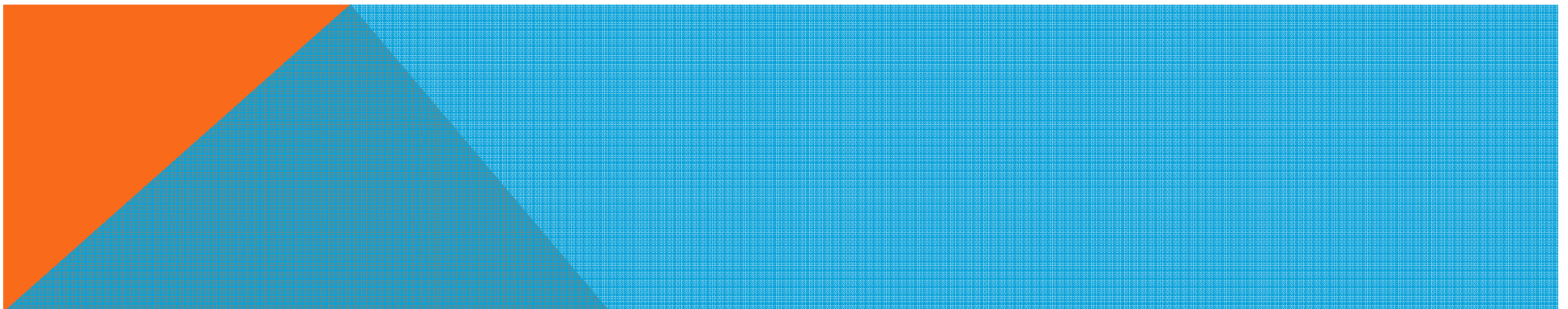
Pakistan Railways (PR) arranged 119 Shuttle services in Peshawar, Multan, Sukkur, Quetta and Karachi Divisions for the IDPs from 31.7.2010 to 30.8.2010

Cost of fuel relief shuttles= Rs.34.00 million

PR is carrying relief goods free of charge.

Two relief goods train reached Quetta from Istanbul on the 2.9.2010 & 7.9.2010 respectively. More expected.

PERMANENT SOLUTION LIES IN PERMANENT RAISING OF TRACK AT VARIOUS LOCATIONS, PROVISION OF ADDITIONAL WATER WAYS, CROSS DRANAGE WORKS AND ADDITIONAL RESERVES OF PITCHING STONES.



THANK YOU

