

MASTER PLAN FAISALABAD

2021-2041



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OSMANI



FAISALABAD DEVELOPMENT AUTHORITY
GOVERNMENT OF PUNJAB



Short Term Strategic Development Plan

FAISALABAD MASTER PLAN (2021-2041)

INCLUDING STRATEGIC PLAN FOR FIVE YEARS

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ABBREVIATIONS

ADP	Annual Development Program
AIIC	Allama Iqbal Industrial city
BRT	Bus Rapid Transit
CMI	Census of Manufacturing Industries
CPEC	China Pakistan Economic corridor
DHA	District Health Authority
DPDC	District Planning and Design committee
EPA	Environmental Protection Agency
FBR	Federal Board of Revenue
FCCI	Faisalabad Chamber of Commerce and Industry
FDA	Faisalabad Development Authority
FESCO	Faisalabad Electric Supply Company
FIEDMC	Faisalabad Industrial Estate Development and Management Company
FMP	Faisalabad Master Plan
FPUSP	Faisalabad Peri Urban Structure Plan
FRR	Faisalabad Ring Road
FUTS	Faisalabad Urban Transport System
FWMC	Faisalabad Waste Management Company
G.T	Grand Trunk
GDP	Gross Domestic Product
GIS	Geographic Information System
GOP	Government of Punjab
GTS	General Transport Stand
H&PP	Housing & Physical Planning
HUD & PHED	Housing, Urban Development & Public Health Engineering Department
IPEMC	Inter-Provincial Education Ministries Conference
ISALs	Internal Saving and Lending Schemes
ISWM	Integrated Solid Waste Management
NHA	National Highway Authority
NOC	No Objection Certificate
OCL	Osmani & Company Private Ltd.
PBIT	Punjab Board of Investment and Trade
PFC	Provincial Finance Commission
PHA	Parks and Horticulture Authority
PHATA	Punjab Housing and Town Planning Agency
PIEDMC	Punjab Industrial Estates Development and Management Company
PSIC	Punjab Small Industries Corporation
PSS	Punjab Spatial Strategy
ROW	Right of Way
SAMA	Service and Asset Management Agreement
SMEDA	Small and Medium Enterprise Development Authority
STP	Sewerage treatment Plant
TDS	Total dissolved solid
TEPA	Traffic Engineering and Planning Agency
TMA	Tehsil Municipal Administration
VAC	Value Addition City
WASA	Water and Sanitation Agency
WHO	World Health Organization

1. PRIORITY PROJECTS

In order to achieve successful and effective implementation of the Master Plan of Faisalabad various priority projects have been identified in five Development Sectors, viz., Social, Economic, Education, Health and Transportation. These projects have been included in the list after initial consultation with the concerned Departments and stakeholders, and their future development programs also originated from the Master Plan proposals and recommendations.

In this list of projects, Social Sector include projects related to Solid Waste Management, Environment, Parks and Open spaces, Graveyards, etc. Economic Sector comprises projects related to the development of Industrial Estates, Dry ports, Warehouses and Cold Storage, Auto spare parts markets, etc. The Education Sector include projects related to Science city, Educational institutes, vocational and technical training institutes, colleges, universities, etc. Health sectors include Specialized Hospitals, General Hospitals, Basic Health Units, and Child and Maternity Homes, etc. in the public sector. Transportation includes projects related to the improvement of existing roads, highways, and the development of new roads, highways, expressways, etc.

After identifying these projects their tentative timeline has been proposed and then priority has been marked keeping in view the need of the project in the current situation of the relevant sector. Moreover, approximate costing has been done based on similar projects in the public sector which is tentative and exact costing would be done at the time of the feasibility of the project, as the cost may vary with respect to time.

The timeline of the projects is tentative and flexible which can be changed depending upon the availability of funds and policy of the Government. Similarly, the priority can also be modified depending on the availability of funds and the subsequent policy of the government.

In the first stage, after initial consultation within FDA on these proposed projects consultation would be made with the concerned Departments individually with the consent of the FDA and agencies like the District Education Authority (DEA) Faisalabad, District Health Authority (DHA), Faisalabad Waste Management Company (FWMC), Faisalabad Municipal Corporation, WASA Faisalabad, TEPA Faisalabad, Office of City Police Officer, City Traffic Police Faisalabad, Punjab Highway Department, Faisalabad, Faisalabad Chamber of Commerce and Industry (FCCI), Punjab Small Industries Corporation (PSIC), Faisalabad Industrial Estate Development and Management Company (FIEDMC), Faisalabad Electric Supply Company (FESCO), Emergency Services 1122, Parks and Horticulture Authority (PHA), Faisalabad, Shehar-e-Khamoshan Authority, etc. The number of Departments may be reviewed in consultation with FDA. These consultative meetings with individual Departments have been arranged, at the FDA office with their consultation. Thereafter, these projects have been made part of the draft Master Plan Report with a consensus. Subsequently, in 2nd phase, the level of consultation may be raised, and these projects would be discussed with the concerned Departments if desired by the FDA. Initial consultation has been undertaken with FDA by the representatives of the consultant. Furthermore, two or three Sector Specialists accompanied the representatives of Osmani & Company Ltd., mainly, one Economic Development Specialist and the other Social Sector Specialist. The list of the proposed projects along with the timeline and priority have been finalized after these consultations and has been made part of the Final Report on the Master Plan of Faisalabad.

In this report, the priority projects have been listed along with their timeline ranking and priority ranking. This timeline ranking and priority ranking are framed up after initial consultation with the individual Departments. The estimated cost of these projects has also been discussed and has been reviewed after consultation with the concerned Departments. Similarly, the tentative location of these projects has also been finalized after consultation with the concerned Departments and after the information on the availability of State land is received.

1.1 ECONOMIC DEVELOPMENT PROJECTS

Table 1: Detailed Planning Feasibility Projects

Sr. No.	PROJECT	TIMELINE RANKING			PRIORITY RANKING			Estimated Cost
		Short Term	Long Term	Both	High	Medium	Low	Rs. in million
1	Development of Allama Iqbal Industrial City (AIIC)		✓			✓		5000
2	Extension of Punjab Small Industries Corporation Industrial Estate		✓			✓		500
3	Establishment of Khurrianwala Industrial Estate		✓			✓		500
4	Regularization of Four Industrial clusters in city area into Industrial Estates	✓			✓			5
5	Establishment of Apparel and Garments Stitching Zone, Narwala and Jhang Road	✓			✓			5
6	Expansion of Faisalabad Dry Port		✓			✓		20
7	Development of Warehouses and Cold Storages	✓			✓			20
8	Establishment of Auto Spare Parts Markets	✓			✓			50
9	Establishment of Slaughter House		✓			✓		50

1.2 DETAIL PLANNING FEASIBILITY PROJECTS

Table 2: Detail Planning Feasibility Projects

Sr. No.	PROJECT	TIMELINE RANKING			PRIORITY RANKING			Estimated Cost
		Short Term	Long Term	Both	High	Medium	Low	Rs. in million
1	Detailed Planning Feasibility of Identified Functional Zones			✓		✓		
2	Construction of FDA offices Complex			✓		✓		100
3	5 Million Housing Project	✓			✓			500
4	Low-Income Housing Projects / Schemes	✓			✓			500
5	Industrial Workers Housing Project		✓			✓		500

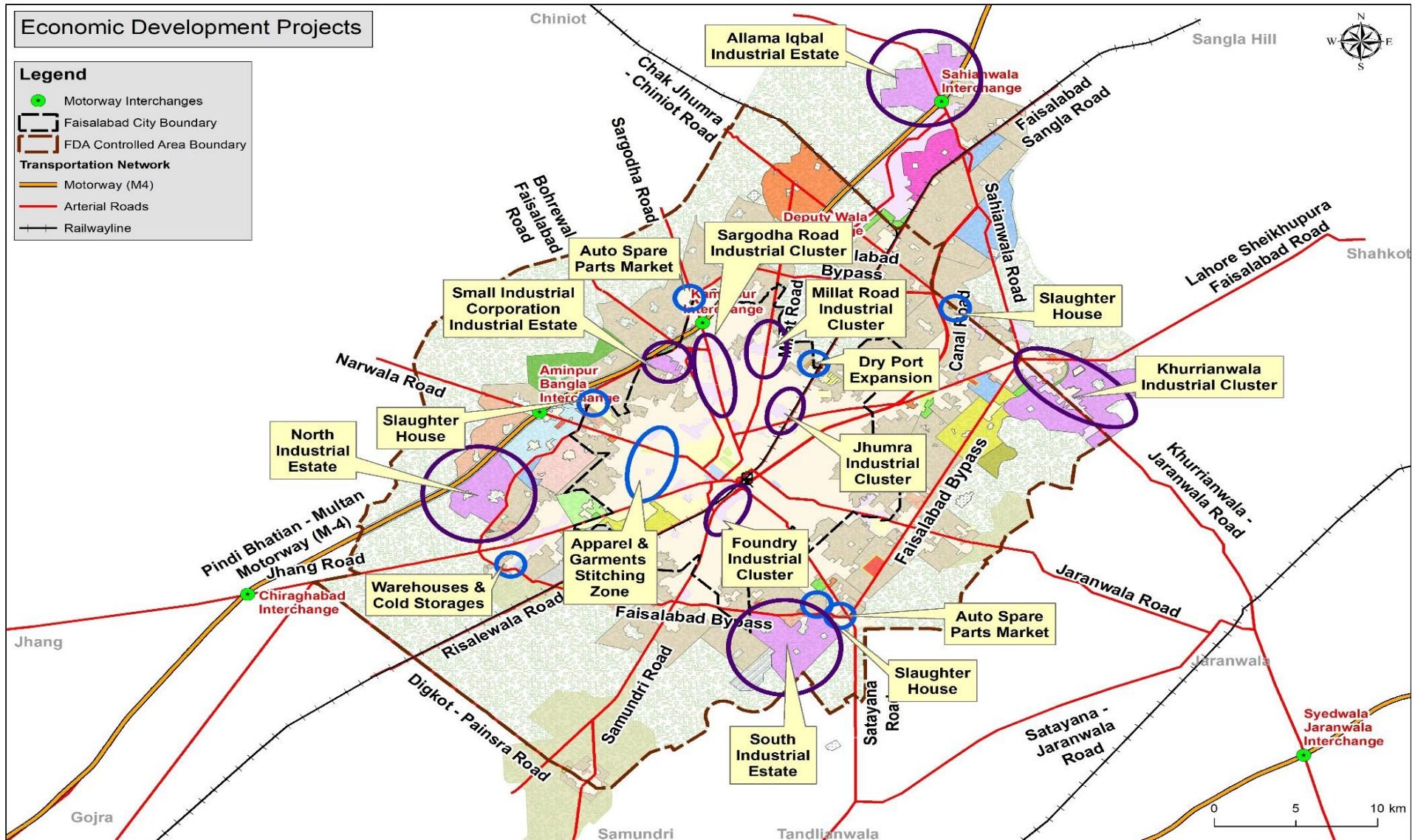


Figure 1: Economic Development Projects

1.3 SOCIAL DEVELOPMENT PROJECTS

1.3.1 Education Sector

Table 3: Social Development Projects (Education Sector)

Sr. No.	PROJECT	TIMELINE RANKING			PRIORITY RANKING			Estimated Cost
		Short Term	Long Term	Both	High	Medium	Low	Rs. in million
Education Sector								
1	CEO/District Education Complex	✓			✓			50
2	Official Residences	✓			✓			200
3	Offices of Dy. DEO Tehsil Chak Jhumra	✓			✓			50
4	Construction and Rehabilitation of Primary Schools and allied Infrastructure	✓			✓			200
5	Construction and Rehabilitation of Middle Schools	✓			✓			150
6	Construction and Rehabilitation of Higher Secondary Schools	✓			✓			250
7	Development of Science City		✓			✓		250
8	Establishment of Congress Centre + Auditorium + 100 Cubicles		✓				✓	150
9	Establishment of Integrated Textile Park		✓				✓	150
10	Establishment of Central Public Library (CPL)		✓				✓	150
11	Establishment of Sports Complex in Science City comprising Cricket Ground, Football Ground, Hockey Ground		✓			✓		150
12	Development of a Swimming Pool in Science City		✓			✓		150
13	Establishment of Botanical Garden		✓				✓	150
14	Development of an International standard Aquarium		✓		✓			200
15	Establishment of Vocational Training Institute for Girls		✓		✓			350
16	Establishment of Skill Development and Vocational Training Institute with the help of Punjab Vocational Training Council (PVTC) and other agencies		✓		✓			250

Sr. No.	PROJECT	TIMELINE RANKING			PRIORITY RANKING			Estimated Cost
		Short Term	Long Term	Both	High	Medium	Low	Rs. in million
17	Establishment of a Polytechnic Institutes for Girls		✓		✓			250
18	Establishment of a Polytechnic Institutes for Boys		✓		✓			300
19	Establishment of University of Engineering, Sciences and Technology (UEST) in Science City, Faisalabad		✓			✓		2000
20	Establishment of a Technical University by FIEDMC in collaboration with Fauji Foundation		✓		✓			1000
21	Establishment of Women University in Faisalabad		✓			✓		2000
22	Establishment of Information Technology University in Faisalabad		✓		✓			1000
23	Establishment of a Police Station in Science City		✓		✓			30
24	Establishment of Fire Station or 1122 in Science City		✓		✓			150
25	Establishment of TEVTA Institute at M-3 Industrial Zone, Faisalabad		✓		✓			250
26	Establishment of Fine Arts College at Faisalabad City		✓				✓	250
27	Establishment of Physical Education College for Boys at Faisalabad		✓		✓			250
28	Establishment of Boys Degree College at Jhang Road near Ayub Res. Institute, -Or- near BISE, Faisalabad		✓		✓			100
29	Establishment of Boys Degree College at Millat Road, Faisalabad.		✓		✓			100
30	Establishment of Boys Degree College at Satiana Road, near Fish farm, Faisalabad		✓		✓			100
31	Establishment of Boys Degree College at Jaranwala Road, near Makkuana, Faisalabad		✓		✓			100
32	Establishment of Boys Degree College at Narwala Road, near Kaleem-Shaheed Park, Faisalabad		✓		✓			100
33	Establishment of Boys Degree College at Pensera, Tehsil Sadar		✓		✓			100

Sr. No.	PROJECT	TIMELINE RANKING			PRIORITY RANKING			Estimated Cost
		Short Term	Long Term	Both	High	Medium	Low	Rs. in million
34	Establishment of Boys Degree College at Meeranwala Banglow Tehsil Sadar		✓		✓			100
35	Establishment of Boys Degree College at Dijkot, Tehsil Faisalabad Sadar		✓		✓			100
36	Establishment of Boys Degree College at Pansra, Tehsil Faisalabad Sadar		✓		✓			100
37	Establishment of Boys Degree College at Chak # 97/RB, Tehsil Jaranwala		✓		✓			100
38	Establishment of Rai Arif Hussain Kharal Girls Degree College at Chak #374/GB, Tehsil Jaranwala		✓		✓			100
39	Establishment of Boys Degree College at Arkana Banglow, Tehsil Jaranwala		✓		✓			100
40	Establishment of Boys Degree College at Satiana Banglow, Tehsil Jaranwala		✓		✓			100
41	Establishment of Boys Degree College at Muridwala, Tehsil Samundri		✓		✓			100
42	Establishment of Girls Degree College at Chak # 46 /GB, Tehsil Samundari		✓		✓			100
43	Establishment of Boys Degree College at Rahmay-Shah, Tehsil Tandlianwala		✓		✓			100
44	Establishment of Girls Degree College at Rahmay-Shah, Tehsil Tandlianwala		✓		✓			100

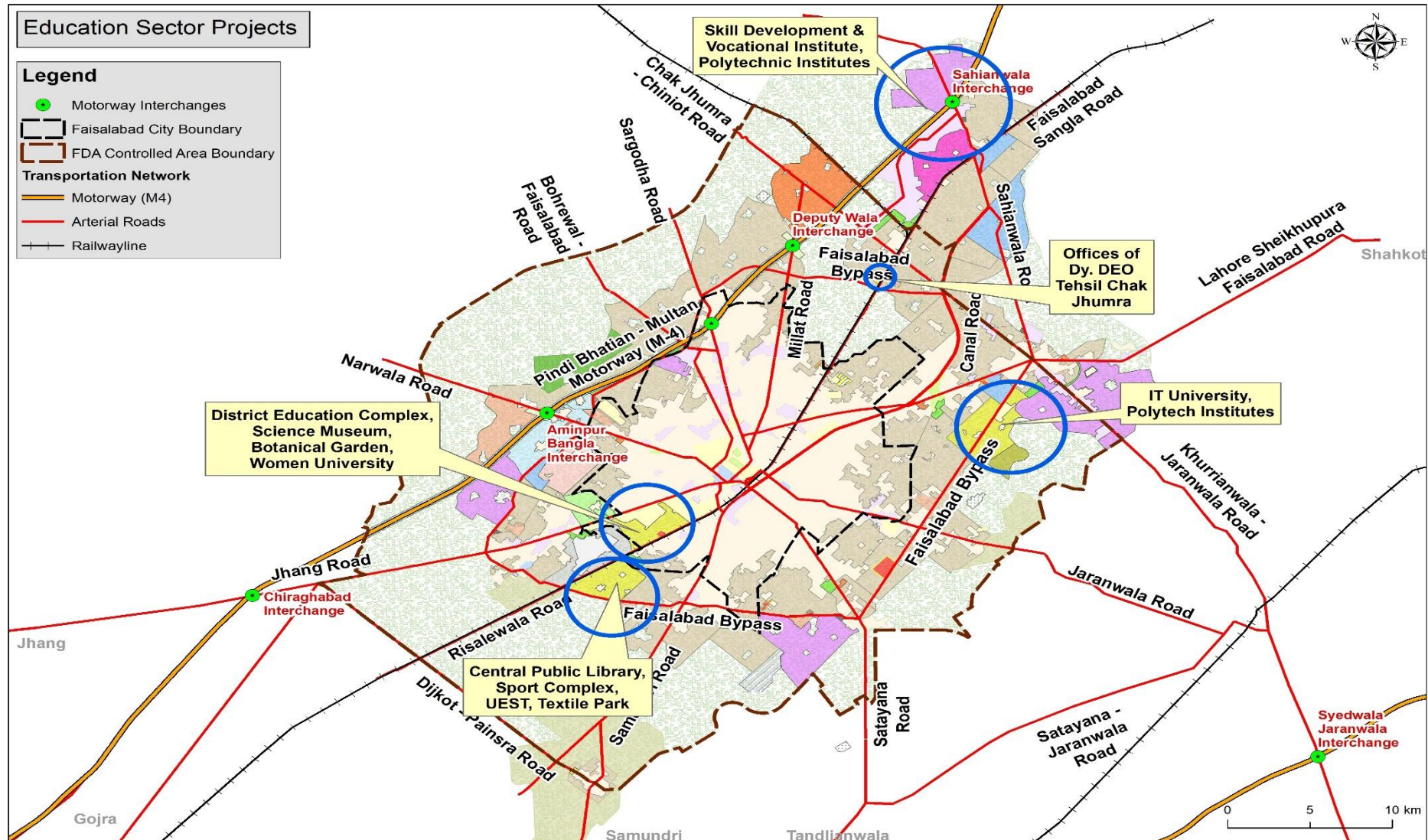


Figure 2: Education Sector Project

1.3.2 Health Sector

Table 4: Social Development Project (Health Sector)

Sr. No.	PROJECT	TIMELINE RANKING			PRIORITY RANKING			Estimated Cost
		Short Term	Long Term	Both	High	Medium	Low	Rs. In million
Health Sector								
1	Establishment of Kidney Hospital in Faisalabad City	✓			✓			2000
2	Establishment of Physiotherapy Hospital in Faisalabad City	✓			✓			2000
3	Establishment 125-Bedded Psychiatry Hospital Faisalabad	✓			✓			1000
4	Establishment of 250-Bedded Jinnah Hospital in West Side of Faisalabad City	✓			✓			1000
5	Establishment of 125-Bedded Allama Iqbal Hospital at Niamoana, Samundri Road Bypass Faisalabad	✓			✓			500
6	Establishment of 250-Bedded Madina Hospital in East side of Faisalabad City	✓			✓			1000
7	Establishment of 125-Bedded Faisalabad Institute of Liver at Allied Hospital Faisalabad.	✓			✓			500
8	Construction of Health Complex in City Faisalabad	✓			✓			1000
9	Upgradation of BHU into 60-Bedded Government General Hospital Khanuana, District Faisalabad	✓			✓			250
10	Upgradation of RHC into into 60-Bedded Chak No.30/JB, District Faisalabad	✓			✓			250
11	Upgradation of 250-Bedded THQ Hospital Jaranwala	✓			✓			500
12	Upgradation of 250-Bedded THQ Hospital Sammundari	✓			✓			500
13	Upgradation of 60-Bedded into 125-Bedded THQ Hospital Tandlianwala	✓			✓			500
14	Upgradation of 60-Bedded into 125-Bedded THQ Hospital Chak Jhumra	✓			✓			500
15	Upgradation of BHU Chak No.74/JB into 60-Bedded Hospital at chakNo. 74/JB, Jhang Road Entrance, Faisalabad	✓			✓			250

Sr. No.	PROJECT	TIMELINE RANKING			PRIORITY RANKING			Estimated Cost
		Short Term	Long Term	Both	High	Medium	Low	Rs. In million
16	Upgradation of RHC 229/RB into 60-Bedded Government General Hospital Makuana	✓			✓			250
17	Provision of Chemical Examiner Testing Laboratory, Faisalabad		✓			✓		50
18	Provision of Public Health Nursing school, Faisalabad		✓			✓		300
19	Provision of Nursing School at Government General Hospital, Ghulam Muhammad Abad, Faisalabad		✓			✓		300
20	Provision of nursing School at Government General Hospital, 224/RB, Faisalabad		✓			✓		300

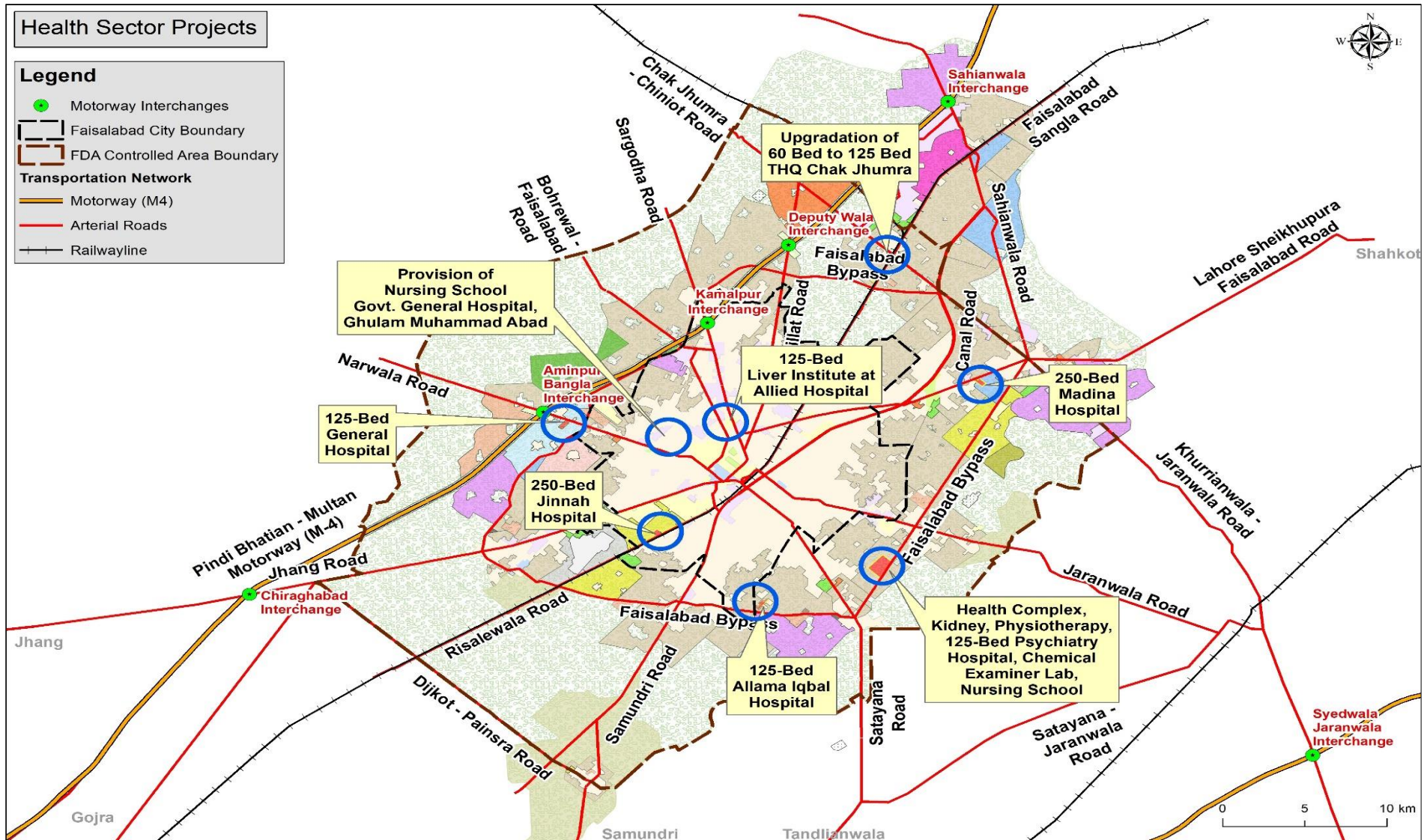


Figure 3: Health Sector Project

1.3.3 SOCIAL SECTOR

Table 5: Development Projects (Social Sector)

Sr. No.	PROJECT	TIMELINE RANKING			PRIORITY RANKING			Estimated Cost
		Short Term	Long Term	Both	High	Medium	Low	Rs. In million
Social Sector								
1	Faisalabad Zoo and Botanical Garden at Gatwala		✓			✓		150
2	Khurrianwala Park		✓			✓		100
3	Chak Jhumra Park and Playgrounds		✓			✓		100
4	Science City Park		✓			✓		150
5	Gatwala Park Extension	✓			✓			50
6	Park on Jhang Road South Side		✓		✓			100
7	Park on Jhang Road North Side		✓		✓			100
8	Gardens or Orchards around Existing STP		✓			✓		50
9	Agro-farms and Park along M-4		✓			✓		50
10	Park on Satayana Road near Khanoana		✓			✓		100
11	Park on both sides of Canal along Samundri Road		✓		✓			100
12	Sports Complex in each NA Constituency		✓		✓			100
13	Sports Complex in Khurrianwala Park		✓		✓			100
14	Sports Complex in Satayana Road Park		✓		✓			100
15	Sports Complex in Science City Park		✓			✓		150
16	Sports Complex in Jhang Road Park		✓			✓		100
17	Sports Complex in FDA City A-Block		✓		✓			150
18	Graveyard on North of Junction of Jaranwala Road with Faisalabad Bypass		✓		✓			150
19	Graveyard on West of Junction of Satayana Road with Faisalabad Bypass		✓			✓		150
20	Graveyard between Samundri Road and Risalewala Road on Faisalabad Bypass		✓			✓		150
21	Graveyard on Jhang Road		✓			✓		150

Sr. No.	PROJECT	TIMELINE RANKING			PRIORITY RANKING			Estimated Cost
		Short Term	Long Term	Both	High	Medium	Low	Rs. In million
22	Graveyard on Junction of Faisalabad Bypass and Narwala Road on the Bypass		✓			✓		150
23	Protection of Existing Graveyards from Encroachments		✓			✓		100
24	Provision of Graveyards in Pvt Housing Schemes		✓			✓		

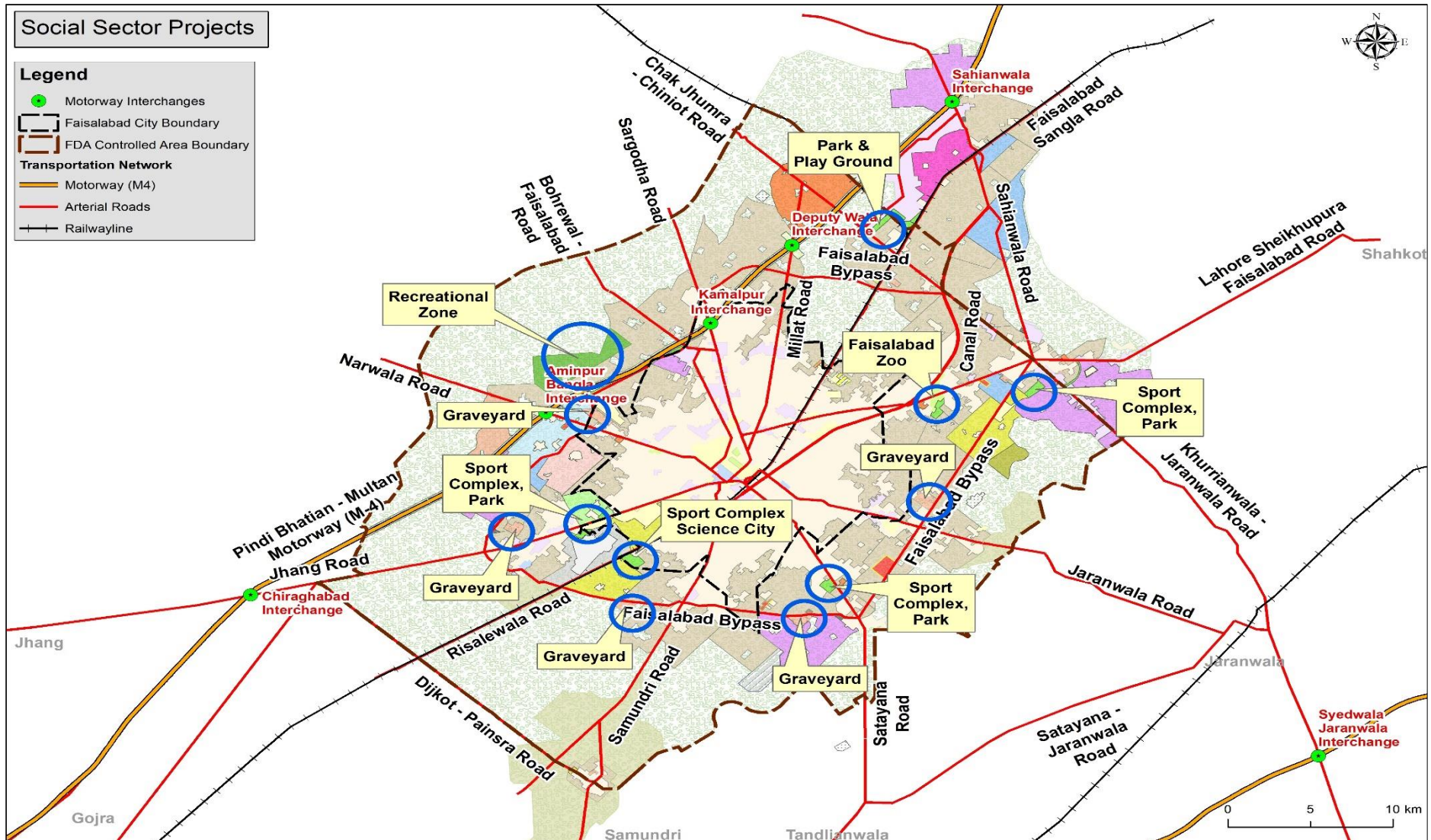


Figure 4: Social Sector Projects

1.4 WATER AND SANITATION DEVELOPMENT PROJECTS (JICA)

Table 6: Water and Sanitation Development Projects (JICA)

Sr. No.	PROJECT	TIMELINE RANKING			PRIORITY RANKING			Estimated Cost
		Short Term	Long Term	Both	High	Medium	Low	Rs. in million
1	Original Jhal Khanuana Water Works	✓			✓			
2	New JK WTP	✓			✓			
3	Gugera WTP	✓			✓			
4	GBC New Tube wells	✓			✓			
5	Allama Iqbal WTP	✓			✓			
6	Jhang WTP		✓				✓	
7	Gugera WTP		✓				✓	
8	GBC Tube wells		✓				✓	
9	JBC New Tube wells		✓				✓	
10	Transmission and Distribution Pipeline	✓			✓			
11	OHRs and GRs		✓				✓	
12	Service Connection and Water meters	✓			✓			
13	Water Supply mapping & GIS	✓			✓			10
14	Trunk Sewer or Interceptor Sewer (Western SWD)			✓			✓	
15	Main Sewers (Western SWD)			✓			✓	
16	Branch Sewers (Western SWD)			✓			✓	
17	Lift Pumping Stations (Western SWD)	✓			✓			
18	Influent Pumping Station (Western SWD)	✓			✓			
19	Chokera WWTP (Western SWD)	✓			✓			
20	Treated Wastewater Pumping and Transmission Facilities (Western SWD)		✓				✓	
21	Trunk Sewer or Interceptor Sewer (Eastern SWD)			✓		✓		
22	Main Sewers (Eastern SWD)			✓		✓		
23	Branch Sewers (Eastern SWD)			✓		✓		
24	Lift Pumping Stations (Eastern SWD)	✓			✓			
25	Influent Pumping Station (Eastern SWD)	✓			✓			

Sr. No.	PROJECT	TIMELINE RANKING			PRIORITY RANKING			Estimated Cost
		Short Term	Long Term	Both	High	Medium	Low	Rs. in million
26	New East WWTP	✓			✓			
27	Treated Wastewater Pumping and Transmission Facilities (Eastern SWD)			✓		✓		
28	Solid Waste Management and Waste to Energy Conversion Feasibility Study			✓		✓		
29	Construction of Landfill site in Faisalabad		✓				✓	

1.5 ROADS AND COMMUNICATION NETWORK PROJECTS

Table 7: Roads and Communication Network Projects

Sr. No.	PROJECT	TIMELINE RANKING			PRIORITY RANKING			Estimated Rough Cost
		Short Term 2020 - 2025	Mid Term 2026 - 2030	Long Term 2031 - 2040	High	Medium	Low	Rs. In million
1	Rehabilitation and Improvement of Existing Roads (280 km)	✓			✓			14,609
2	Reconstruction of Existing Roads (70 km)	✓			✓			8,553
3	Proposed New Road Network (Phase I – 295 km)	✓			✓			32,797
4	Improvement of Major Intersection (40 Nos.)	✓			✓			1,800
5	Repair of Existing Signals to Make them Operational (25 Nos.)	✓			✓			1,125
6	Traffic Signs and Pavement Markings (350 km)	✓				✓		1,225
7	Parking and Parking Plazas near Eight Bazaar Area (272,123 Land Area, 3 Nos. – 957,744 sft)	✓			✓			7,183
8	Pedestrianization of Eight Bazaar Area (464,000 sft)	✓			✓			139
9	Pedestrian Bridges in CBD Area (Phase 1 – 10 out of 52) – 10 Nos.	✓				✓		650
10	Flyover / Underpasses (6 Nos.)	✓			✓			5,400

11	Proposed New Road Network (Phase II – 135 km)		✓			✓		14,855
12	Faisalabad Bypass Rehabilitation (95 km)		✓		✓			7,182
13	Construction of Faisalabad Ring Road Links (Phase 1 – 26 km)		✓			✓		5,352
14	Faisalabad Bypass Link with M3-Industrial Estate (FIEDMC) (4.2 km)		✓			✓		597
15	Khurrianwala Bypass (14.7 km)		✓			✓		2,805
16	Khurrianwala Bus Stand (31 Acres)		✓			✓		3,410
17	Interchange on M3 at Satyana Road		✓			✓		2,500
18	Improvement of Existing Links and Associated Junctions of Science City (14 km)		✓			✓		1,842
19	Airport Link between Risalewala and Jhang Roads (4 km)		✓			✓		763
20	Pedestrian Bridges in CBD Area (Phase 2 – 15 out of 52) – 15 Nos.		✓			✓		975
21	Proposed New Road Network (Phase III – 320 km)			✓			✓	38,737
22	Construction of Expressway Connecting M3 and M4 (54.5 km)			✓	✓			11,218
23	Railway Track from Sangla Hill to Gatti Dry Port (Phase 1 – 34 km)			✓		✓		2,550
24	Railway Track from Gatti Dry Port to Abbaspur (Phase 2 – 26 km)			✓			✓	1,950
25	Construction of Faisalabad Ring Road Remaining Links (Phase 2 – 28 km))			✓		✓		5,764
26	General Bus Stand on Millat Road (75.9 Acres)			✓			✓	8,349
27	General Bus Stand on Lahore - Sheikhpura - Faisalabad Road (84.3 Acres)			✓			✓	9,273
28	Extension of Existing Truck Stand on Sargodha Road (37.5 Acres)			✓		✓		1,875
29	Truck Stand on Faisalabad Bypass Near Satayana Road (110.8 Acres)			✓			✓	5,540
30	Truck Stand on Sahianwala Road near VAC (22 Acres)			✓		✓		1,100
31	Truck Stand on Sahianwala Interchange on M4 (21.8 Acres)			✓		✓		1,090
32	Extension of Dry Port at Gatti Railway Station (43.1 Acres)			✓		✓		2,155

33	Construction of BRT Corridors (Red Line + Orange Line) (50.44 km)			✓			✓	90,550
34	Pedestrian Bridges in CBD Area (Phase 3 – 27 out of 52) – 27 Nos.			✓			✓	1,755
35	Feasibility Study for Integrated Bus Operations (IBO)			✓			✓	100
36	Feasibility Study for Circular Connectivity of Thirteen (13) Radial Roads			✓	✓			100

*The development projects listed above are conceptual only for the Master Plan of Faisalabad. Further refinement through preliminary design and detailed design by appointed Consultants of the executing agency will be required to firm up the rough budget costs and preparation of tender documents for execution of these projects.

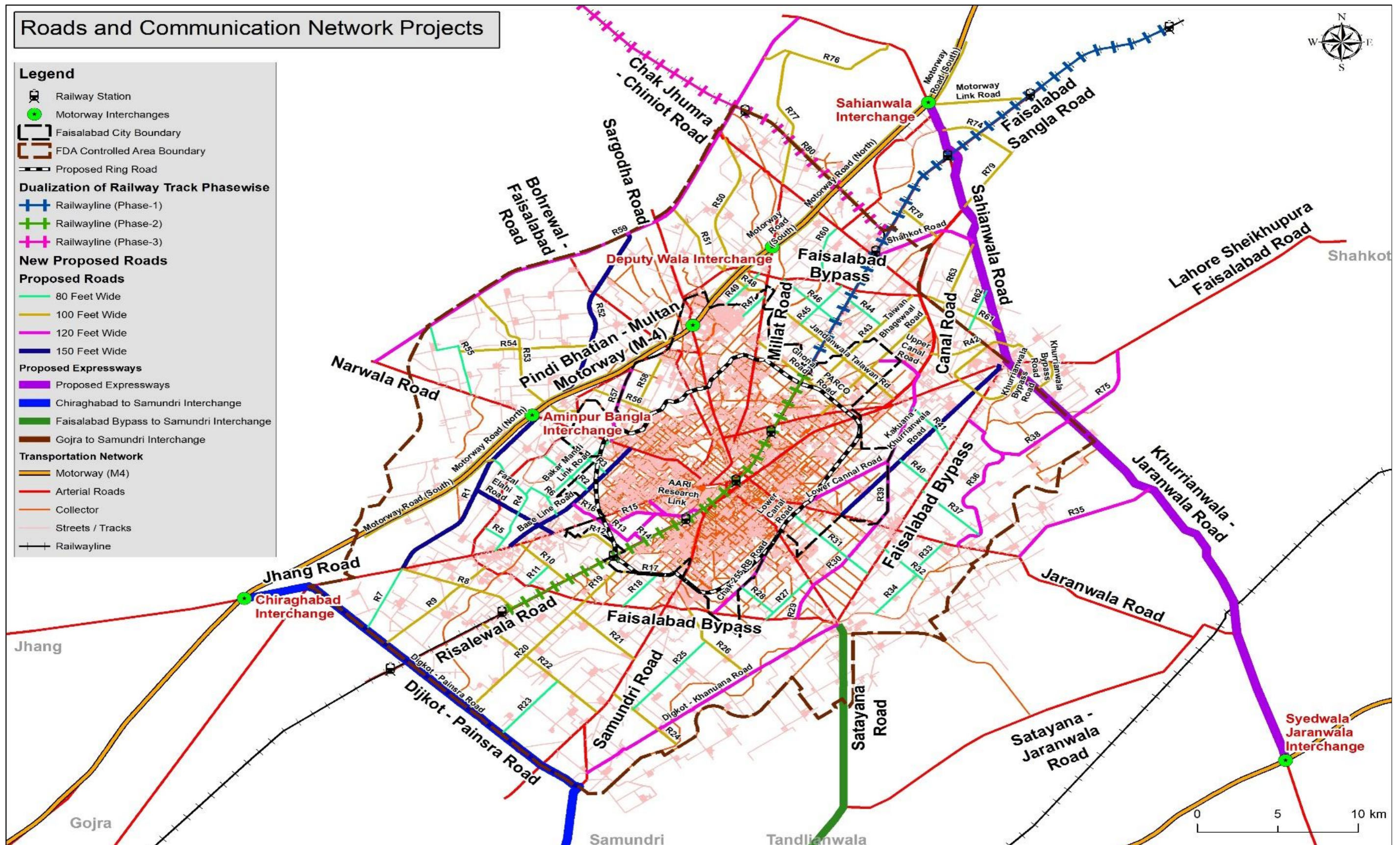


Figure 5: Roads and Communication Network Projects

1.6 ENVIRONMENT AND DISASTER MANAGEMENT PROJECTS

Table 8: Environment and Disaster Management Projects

Sr. No.	PROJECT	TIMELINE RANKING			PRIORITY RANKING			Estimated Cost
		Short Term	Long Term	Both	High	Medium	Low	Rs. In million
1	Detailed Urban Risk Assessment of Faisalabad	✓			✓			200
2	Establishment of EOC (Emergency Operation Center)	✓				✓		100
3	Strengthening of Rescue and Response Capacity	✓				✓		300
4	Awareness Campaign on Environment and Disaster Reduction		✓			✓		50
5	Shifting of Oil Depot	✓			✓			500
6	Setting up of continuous monitoring stations to record pollution levels in ambient air of Faisalabad			✓	✓			500
7	Installation of noise barriers for residential, commercial and industrial users		✓			✓		500
9	Creation of public awareness on environmental improvement plan of Faisalabad	✓					✓	20
10	Air quality improvement plan for Faisalabad			✓	✓			1500
11	Development of a connected network of safe bicycling and walking facilities		✓			✓		2000
12	Plantation of sensitive indigenous species in the vicinity of brick kilns or industrial emission areas to cope with air pollution problems		✓		✓			100
13	Purchase of quieter public service and transit vehicles (e.g., electric and hybrid buses)		✓			✓		1000
14	Establishment of suitable buffer zones around residential areas in order to insulate from noise emanating areas		✓				✓	100
15	Continuous monitoring surface water quality in Faisalabad			✓		✓		250

Sr. No.	PROJECT	TIMELINE RANKING			PRIORITY RANKING			Estimated Cost
		Short Term	Long Term	Both	High	Medium	Low	Rs. In million
16	Pilot project to capture rainwater to irrigate City sport fields and park	✓				✓		50
17	Flash flood management system for Faisalabad	✓			✓			200
18	Pilot project to collect and reuse swimming pool and mosque's ablution area water to irrigate local parkland and sports fields		✓			✓		50
19	Pilot project to establish methodologies for reduction in freshwater consumption in urban centers through efficient scientific sewage treatment system and proper recycle/reuse facilities		✓			✓		50
20	Frequent acquisition of High-resolution satellite, air and drone photos of the City and surrounding areas to inventory and monitor trees, parks and natural areas			✓	✓			500
21	Plantation of native tree species and the preservation of existing trees			✓		✓		50
22	Development of a GIS based priority planting tool to assist municipal staff and community partners		✓			✓		50
23	Tree plantation on properties of community associations, school boards, residents including greening parking lots			✓		✓		50
24	Development of dense shade in parks, playgrounds, spectator areas of sports fields, Bus stops and other public spaces frequented by children and vulnerable populations		✓			✓		50