



IRRIGATION DEPARTMENT
GOVERNMENT OF THE PUNJAB

**Lower Bari Doab Canal Improvement Project
Addendum to Short Resettlement Plan of
LBDC Main Canal, (ICB-03)**

Tranche 1

April, 2014

Background

1. The addendum is prepared to incorporate the changes came in the original SRP ICB-03, approved by ADB. During the implementation of civil works, different options were explored to minimize the impact of resettlement of the sub-project. Final engineering design, tender document and implementation of civil works have resulted in less impact of the sub-project. The 04 families are impacted instead of 11 families as envisaged in original SRP ICB 03. Diversion channels were constructed on Irrigation department land therefore there are no farmers whose lands are affected. No female headed household is impacted by the sub-project.
2. The proposed civil works activities are kept within the Right of Way (ROW). The implementation of this sub-project has caused resettlement issues for the clearance of Corridor of Impact (Col) to perform the execution of civil works. Thus, minimum disturbance and displacement is envisaged.

Objectives of Addendum to SRP

3. The addendum to SRP ICB-03 (Main Canal RD 526+000 to 660+700) is developed with following objectives:
 - To incorporate the changes made in the original SRP ICB 03
 - To compare the original and present list of AFs, impacts, costs and allowances

Design and Details

4. The LBDC Main Canal originates from river Ravi at Balloki Barrage, about 75 km south west of Lahore. Its total length is 201 km. The sub-project ICB 03 starts from RD 526+000 to RD 660+700.
5. Following civil works for Replacement & Rehabilitation of Main Canal (RD 526+000 to RD 660+700) ICB-03 are under progress:

Table 01: Construction of Replacement Work

| Structures | Total |
|-------------------------------------|-------|
| Fall Structure | 1 |
| Cross Regulators | 2 |
| Village Road Bridges (VRB) | 3 |
| District Road Bridge (DRB) | 1 |
| Cattle Ghats | 6 |
| Watch & Ward Stations And Buildings | 4 |

Table 02: Construction of Rehabilitation Work

| Structures | Total |
|----------------|-------|
| Fall cum VRB | 3 |
| VRB | 1 |
| Aqueduct | 1 |
| Head Regulator | 15 |

Scope of Land Acquisition & Affected Families (AFs)

6. No permanent or temporary land acquisition is required in case of ICB-03. Entire RoW has not been used for the civil work execution as most of the civil works is carried out within the Col. The diversion channels at three locations are excavated in the RoW owned by the Irrigation Department. All appropriate options of engineering design have been adopted in finalizing the alignment. Final cross section & engineering design of different reach and tender document have resulted in less impact of resettlement during

execution of civil work as compared to the anticipated impact in the original SRP.

7. At the execution stage, it is identified in real time impact assessment that 04 families are impacted instead of 11 families (**Annex 01**). The AFs have experienced temporary impacts such as disruption of their existing business sites and suspension of source of livelihood during the construction period of particular canal reach. Interruption of any residential household is not envisaged. No women-headed household as well as no community structure is affected by the sub-project.

Table 03: Comparison of Original SRP ICB 03 & Addendum to SRP ICB 03

| S.No | Resettlement Impact | Original SRP ICB 03 | Addendum to SRP ICB 03 |
|------|---------------------------|---------------------|------------------------|
| 1 | No. of AFs | 11 | 04 |
| 2 | No. of APs | 67 | 26 |
| 3 | No. of Land AFs | 00 | 00 |
| 4 | No. of Private Structure | 23 | 07 |
| 5 | No. of Govt. Tree Removed | 6,411 | 1,839 |
| 6 | No. of Prayer Place | 02 | 00 |
| 7 | No. of Electric Poles | 07 | 00 |
| 9 | Cost of Implementation | Rs. 6.946 (M) | Rs. 2.992 (M) |

8. List of affected persons whose structures are being impacted or not with reasons and status of compensation is illustrated in the table below

Table 04: List of Affected Persons with updated Status

| I.D | Name of AP | RD | Canal Side | Location | Updated status |
|-----|----------------------------------|-----|------------|--------------------|--|
| 01 | M. Afzal Khan s/o M. Khan | 527 | RS | 1/14L | Paid |
| 02 | M. Shaban s/o M. Sultan | 527 | RS | Kassowal Bridge | Paid |
| 03 | Abdul Jabar s/o Farzand | 527 | RS | 1-A/14L | The structures of the APs were previously falling inside the designated COI. However the final cross section of that particular reach confirms that the structures are not affected during execution of the civil works. Structures of APs are intact and present at site therefore the APs does not qualify for the compensation. |
| 04 | M. Naseeb s/o Ameer M. | 527 | RS | 114/7-R | |
| 05 | M. Mumtaz s/o Peer Bukhash | 527 | RS | 116/7-DR | |
| 06 | M. Habib s/o Said ullah | 527 | RS | 120/12-L | Paid |
| 07 | Manak Ali s/o Mohabat Ali | 527 | RS +LS | Kassowal Bridge | The structures of the APs were previously falling inside the designated COI. However the final cross section of that particular reach confirms that the structures are not affected during execution of the civil works. Structures of APs are intact and present at site therefore the APs does not qualify for the compensation. |
| 08 | Nawab s/o Rajab Ali | 528 | RS | 119/7-DR | |
| 09 | Allah Ditta s/o Imam Deen | 528 | RS | 119/7-DR | |
| 10 | Shakil Ahmed s/o Naseer Ahmed | 571 | RS | Koranga | Unpaid |
| 11 | M. Nawaz s/o Chirag Din | 632 | RS | 6/8-AR | The structure of the AP was previously falling inside the designated COI. However the final cross section of that particular reach confirms that the structure is not affected during execution of the civil works. Structure of AP is intact and present at site therefore the AP does not qualify for the compensation. |

Occupation and Income of APs

9. The people of the area are mostly involved in the small business and self employment occupations. The category of small business and monthly income of the impacted families are described in the table below.

Table 04: Categories of Affected Families with Income Status

| Sr. No | Profession of the AF | No. of Affected Family | Total No. of APs. | Total Monthly Income (Rs.) | Average Monthly Income Per Families (Rs) | Per capita income/month for each profession |
|--------------|----------------------|------------------------|-------------------|----------------------------|--|---|
| 1 | Business | 01 | 08 | 34,015 | 34,015 | 4,252 |
| 2 | Shopkeeper | 01 | 06 | 8,000 | 8,000 | 1,334 |
| 3 | Cobbler | 01 | 08 | 16,000 | 16,000 | 2,000 |
| 4 | Barber | 01 | 04 | 2000 | 2,000 | 500 |
| Total | | 4 | 26 | 60,015 | 15,004 | 2,308 |

Types and Assessment of Impacts

10. For civil works of sub-project, Corridor of Impact (Col) has been cleared, mostly fall within the Right of Way (RoW). Diversion channels are provided at three locations which are on Irrigation department land. In some sections of the sub-project, the Col is occupied by encroachers/squatters for different purposes like commercial / residential, religious structures and public infrastructures. All impacted by the sub-project are being compensated accordingly, under ADB guidelines.

a. Impact on Privately Owned Structures

11. Different types of privately owned structures (commercial) are affected by the project civil works. Two moveable business structures have also come under the impact and are temporarily relocated from Col. The different types of affected structures are given in the table below.

Table 05: Private Structures Located in Col

| Sr. No. | Details of Structures | Type of Loss (T/P) | Type & Number of Structures | | | | | | | |
|--------------|------------------------------|--------------------|-----------------------------|---------------|------------|---------------|-------|---------------|--------------------|-----------|
| | | | Pacca | | Semi Pacca | | Kacha | | Moveable Structure | |
| | | | No. | Area (Sq.ft.) | No. | Area (Sq.ft.) | No. | Area (Sq.ft.) | | |
| 1 | Latrine | P | - | - | 01 | 13 | - | - | | |
| 2 | Shed | P | - | - | - | - | 01 | 322 | - | |
| 3 | Shed | T | - | - | - | - | 01 | 240 | - | |
| 4 | Patio | T | 01 | 77 | 01 | 40 | - | - | - | |
| 5 | Kiosk (Khokha) / Table chair | T | - | - | - | - | - | - | 02 | |
| Total | | | - | 01 | 77 | 02 | 133 | 02 | 562 | 02 |

b. Impact on Trees

12. No privately owned trees are affected within the entire Col of the sub-project ICB-03. About 1,839 matured non-fruit trees owned by the Forest Department fall in the Col. These have been removed.

c. Impact on Community Owned Assets / Structures

13. No community asset / structure are being impacted under the sub-project.

d. Impacts on Vulnerable

14. Out of 04 AFs, 02 AF are found earning below OPL and are considered as vulnerable. The incomes of these AFs are fragile and any change in their socio- economic equilibrium would result in negative effects.

e. Impacts on Women Headed Households

15. No woman headed household is identified in the entire Reach of ICB-03 who is impacted by the sub-project.

VALUATION & COMPENSATION OF DIFFERENT TYPES OF IMPACTS

16. Under the legal and policy framework of Government of Pakistan & Asian Development Bank Guidelines, compensations are provided for the lost assets of AFs.

a. Compensation for Privately Owned Structures

21. The privately owned affected commercial structures include wooden kiosks (khokha), table chair & sheds. The kacha, semi pacca and pacca structures have been evaluated separately. The detail of compensation for various types of structures is provided in the table below.

Table05: Valuation of Privately owned Affected Structures/Assets

| Sr. No. | Details of Structures | No. of Structures | Area (Sq. ft.) | Unit Rate (Rs./sq. ft.) | Total Cost (Rs.) |
|---------------|----------------------------|-------------------|----------------|-------------------------|------------------|
| 1 | a) Sheds | | | | |
| | Kacha | 02 | 562 | 150 | 84,300 |
| | b) Patio | | | | |
| | Pacca | 01 | 77 | 150 | 11,550 |
| | Semi Pacca | 01 | 40 | 100 | 4,000 |
| 2 | a) Latrine | | | | |
| | Semi Pacca | 01 | 13 | 100 | 1,300 |
| 3 | Moveable Structures | | | | |
| | Kiosk (Khokha) | 01 | Nil | 5,000 | 5,000 |
| Total: | | | | | 106,150 |

b. Provisions for Compensatory Plantation

22. No privately owned tree has been identified in the Col. About 1,839 trees are affected which were under the administrative control of Forest Department. According to the avenue miles, Forest Department has calculated cost **Rs. 1,634,003/- (Rs 1.634 million)** and the same has been paid to the Forest Department.

c. Transportation Allowance

23. The owners of the wooden kiosks (Khokha) and other business structures falling within the Col have the option to relocate themselves at a suitable and feasible location in the nearby vicinity. For this purpose, they have been provided with a shifting allowance in addition to cost of the affected structure (**Annex 02**).

d. Additional Assistance for Vulnerable Families

24. The 02 families have monthly earnings below OPL. For such families, an additional allowance of Rs.7800 per family is paid as additional assistance (**Annex 03**).

e. Income Restoration (Livelihood Allowance)

25. It is anticipated that the project will make a positive impact on the economy of the area. However, to compensate any adverse impact on their earning, a livelihood allowance equivalent to two month's income as per OPL is provided in the budget (**Annex 04**).

Table06: Income Restoration

| Sr. No. | Type of Loss | AFs (Nos.) | Allowance Rate | Total (Rs.) |
|---------------|---|------------|----------------|---------------|
| 1 | Temporary Loss of Income due to business interruption | 4 | 7800x02 | 62,400 |
| Total: | | 4 | - | 62,400 |

RESETTLEMENT BUDGET AND FINANCING

26. The resettlement budget is calculated as **Rs. 2.992 million (US\$ 0.031 million)**. This includes the cost of assets/structures to be dislocated and trees falling within the affected area. In addition, the livelihood allowance, shifting allowance and cost of M&E are allocated in the budget

Table 07: Detailed Cost of SRP Implementation ICB 03

| Sr. No. | Description of Affected Items | Units | Total Value |
|--|---|----------|-------------------------|
| A. Compensations | | | |
| a) Commercial Structures | | | |
| 1 | Sheds | 02 | 84,300 |
| 2 | Patio | 02 | 15,550 |
| 3 | Kiosk | 01 | 5,000 |
| 4 | Latrine | 01 | 1,300 |
| Sub Total (a) : | | | 106,150 |
| 5 | Additional Assistance to Vulnerable | 02 | 15,600 |
| 6 | Livelihood Allowance | 04 | 62,400 |
| 7 | Transport Allowance | 02 | 4,000 |
| Sub Total (b) : | | | 82,000 |
| Total A (a+b) | | | 188,150 |
| B. Compensatory Plantation Cost for Govt. Trees | | | |
| 8 | Forest Trees (Govt.) | 1,839 | 1,634,003 |
| Sub Total (B) : | | | 1,634,003 |
| C. Monitoring and Evaluation | | | |
| 9 | Monitoring & Evaluation | Lump sum | 1,000,000 |
| Sub Total (C) : | | | 1,000,000 |
| Total (A+B+C) : | | | 2,822,153 |
| D. Contingencies | | | |
| 10 | SRP Implementation Charges @ 1 percent of (A+B+C) | | 28,222 |
| 11 | Contingencies @10 per cent of (A+B+C) | | 141,108 |
| Sub Total (D) : | | | 169,330 |
| TOTAL COST Rs : | | | 2,991,483 |
| One US\$ = Pak Rs. 98 | | | TOTAL COST US\$: |
| | | | 30,526 |

Annex -1 Real Time Impact Assessment of Main Canal ICB-03

Inventory of Private Structures ICB-03 LBDC

| No. | Plot No. | Type | Owner | Structure | Status | Area | | | Value | Other | Total | Compensation | Resettlement | Remarks | | | |
|--------------------|----------|-----------------|------------------------------|-----------|------------------------------------|----------|---------|--------|--------|---------|--------|--------------|--------------|---------|---------|-----|--|
| | | | | | | Latrine | S.Pacca | 13 | | | | | | | | | |
| 1 | 527 | 1/14L | M.Afzal Khan s/o M. Khan | Com | Latrine | 13 | 100 | 1,300 | 61,150 | - | 15,600 | 2,000 | - | 78,750 | YES | | |
| | | | | Shed | Kacha | 322 | 150 | 48,300 | | | | | | | | | |
| | | | | Patio | Pacca | 77 | 150 | 11,350 | | | | | | | | | |
| 2 | 527 | Kassowal Bridge | M.Siraban s/o M.Sultan | Com | Adda | Moveable | 0 | - | - | - | - | 15,600 | - | 7,800 | 23,400 | YES | |
| 3 | 527 | 1-A/14L | Abdul Jabbar s/o Farzand | Com | Shop | S.Pacca | 160 | 500 | 80,000 | 80,000 | - | 6,000 | 2,000 | 7,800 | 95,800 | NO | |
| 4 | 527 | 114/7-R | M.Naseeb s/o Anceer Muhammad | Com | Tenet only income will be Affected | N/A | 0 | - | - | - | - | 15,600 | 2,000 | 7,800 | 25,400 | NO | |
| 5 | 527 | 116/7-DR | M. Mumtaz s/o Peer Bukhash | Com | Kiosk | Moveable | 0 | - | 5,000 | 5,000 | - | 15,600 | - | 7,800 | 28,400 | NO | |
| 6 | 527 | 120/13-L | M.Habib s/o Saïd Ullah | Com | Shed | Kacha | 240 | 150 | 36,000 | 45,000 | - | 15,600 | 2,000 | - | 62,600 | YES | |
| | | | | | Patio | S.Pacca | 40 | 100 | 4,000 | | | | | | | | |
| | | | | | Kiosk | Moveable | 0 | - | 5,000 | | | | | | | | |
| 7 | 527 | Kassowal Bridge | Manak Ali s/o Mohabat Ali | Res+ Com | Shop | Kacha | 192 | 300 | 57,600 | 182,140 | 23,400 | 109,200 | 2,000 | - | 316,740 | NO | |
| | | | | | Shed | Kacha | 105 | 150 | 15,750 | | | | | | | | |
| | | | | | Room | Kacha | 270 | 300 | 81,000 | | | | | | | | |
| | | | | | Shed | Kacha | 154 | 150 | 23,100 | | | | | | | | |
| | | | | | B. Wall | Kacha | 67 | 70 | 4,690 | | | | | | | | |
| 8 | 528 | 119/7-DR | Nawab s/o Rajab Ali | Res | Room | Kacha | 180 | 300 | 54,000 | 235,000 | 23,400 | 15,600 | 2,000 | - | 276,000 | NO | |
| | | | | | Room | Kacha | 300 | 300 | 90,000 | | | | | | | | |
| | | | | | Room | Kacha | 225 | 300 | 67,500 | | | | | | | | |
| | | | | | B. Wall | Kacha | 90 | 70 | 6,300 | | | | | | | | |
| | | | | | Manger | S.Pacca | 112 | 100 | 11,200 | | | | | | | | |
| | | | | | HP | Moveable | 0 | 6,000 | 6,000 | | | | | | | | |
| 9 | 528 | 119/7-DR | Allah Ditta s/o Imam Deen | Res | Room | Kacha | 225 | 300 | 67,500 | 139,620 | 23,400 | 15,600 | 2,000 | - | 180,620 | NO | |
| | | | | | Room | Kacha | 225 | 300 | 67,500 | | | | | | | | |
| | | | | | B. Wall | Kacha | 66 | 70 | 4,620 | | | | | | | | |
| 10 | 571 | Kumnga | Shakil Ahmad | Com | Table+Chair | Moveable | - | - | - | - | - | 15,600 | - | 7,800 | 23,400 | YES | |
| 11 | 632 | 6/8-AR | M.Navaz | Com | Boat | Moveable | - | - | - | 5,000 | - | 15,600 | - | - | 20,600 | NO | |
| Grand Total | | | | | | | | | | | | | | | | | |

Resident Engineer ICB-03

Deputy Director SSG

Principal Sociologist

Deputy Director CR

Deputy Director PIU

Contractor's Rep

Annex-02 Transport Allowance for Affected Household Main Canal ICB-03

| Sr. No. | ID No. | RD | Location | Canal Side | Name of AP | Household Size | Monthly Income (Rs.) | Structure Category | Transport Allowance |
|--------------|--------|-----|----------|------------|--------------------------|----------------|----------------------|--------------------|---------------------|
| 1 | 1 | 527 | 1/14L | RS | M.Afzal Khan s/o M. Khan | 8 | 34,015 | Commercial | 2,000 |
| 2 | 6 | 527 | 120/13-L | RS | M.Habib s/o Said Ullah | 6 | 8,000 | Commercial | 2,000 |
| Total | | | | | | 14 | 42,015 | | 4,000 |

Annex-03 Vulnerable Affectees of Main Canal ICB-03

| Sr. No. | ID No. | RD | Location | Canal Side | Name of AP | Family Size | Monthly Income (Rs.) | Structure Category | Additional Assistance for Vulnerable |
|--------------|--------|-----|-----------------|------------|-------------------------------|-------------|----------------------|--------------------|--------------------------------------|
| 1 | 2 | 527 | Kassowal Bridge | RS | M.Shaban s/o M.Sultan | 8 | 16,000 | Commercial | 7,800 |
| 2 | 10 | 571 | Koranga | RS | Shakil Ahmed s/o Naseer Ahmed | 4 | 2,000 | Commercial | 7,800 |
| Total | | | | | | 12 | 18,000 | - | 15,600 |

Annex-04 Livelihood Allowance for Affected Household Main Canal ICB-03

| Sr. No. | ID No. | RD | Location | Canal Side | Name of AP | Household Size | Monthly Income (Rs.) | Structure Category | Livelihood Allowance |
|--------------|--------|-----|-----------------|------------|-------------------------------|----------------|----------------------|--------------------|----------------------|
| 1 | 1 | 527 | 1/14L | RS | M.Afzal Khan s/o M. Khan | 8 | 34,015 | Commercial | 15,600 |
| 2 | 2 | 527 | Kassowal Bridge | RS | M.Shaban s/o M.Sultan | 8 | 16,000 | Commercial | 15,600 |
| 3 | 6 | 527 | 120/13-L | RS | M.Habib s/o Said Ullah | 6 | 8,000 | Commercial | 15,600 |
| 4 | 10 | 571 | Koranga | RS | Shakil Ahmed s/o Naseer Ahmed | 4 | 2,000 | Commercial | 15,600 |
| Total | | | | | | 22 | 60,015 | - | 62,400 |