

## ECONOMIC AND FINANCIAL ANALYSIS

## SUPPORTING TABLES

Table 3.1: Farm (0.2 ha). Crop Budget for Paddy - HYV Boro (Rabi) - Existing Diesel Pump (1 ha)

	Unit	Without Project					With Project				
		Quantity	Financial		Economic		Quantity	Financial		Economic	
			Price per Unit (BDT)	Income & Expenditure (BDT)	Price per Unit (BDT)	Income & Expenditure (BDT)		Price per Unit (BDT)	Income & Expenditure (BDT)	Price per Unit (BDT)	Income & Expenditure (BDT)
<b>Outputs</b>											
Main product: Paddy - HYV Boro (Rabi) - Existing Diesel Pump	ton	3.00	12,500.00	37,500.00	20,483.47	61,450.41	4.40	12,500.00	55,000.00	20,483.47	90,127.27
Byproduct: Paddy straw - Paddy - HYV Boro (Rabi)	ton	1.01	4,800.00	4,848.00	4,653.86	4,700.40	1.50	4,800.00	7,200.00	4,653.86	6,980.80
<b>Total income</b>				<b>42,348.00</b>		<b>66,150.81</b>			<b>62,200.00</b>		<b>97,108.06</b>
<b>Inputs</b>											
Paddy - HYV Boro (Rabi) - Existing Diesel Pump seed	kg	98.00	29.00	2,842.00	28.12	2,755.48	50.00	29.00	1,450.00	28.12	1,405.85
Urea	kg	180.00	20.00	3,600.00	37.85	6,813.62	200.00	20.00	4,000.00	37.85	7,570.69
TSP	kg	98.00	29.00	2,842.00	42.86	4,200.34	100.00	29.00	2,900.00	42.86	4,286.06
MP	kg	50.00	17.00	850.00	42.64	2,131.99	50.00	17.00	850.00	42.64	2,131.99
Land preparation	sum	31.00	248.00	7,688.00	240.45	7,453.94	30.00	248.00	7,440.00	240.45	7,213.49
Plant protection	sum	1.50	1,400.00	2,100.00	1,357.38	2,036.07	2.40	1,400.00	3,360.00	1,357.38	3,257.71
Labor (hired) - Rabi	day	30.00	315.00	9,450.00	236.25	7,087.50	55.00	315.00	17,325.00	236.25	12,993.75
Labor (hired) - Kharif	day		300.00	-	225.00	-		300.00	-	225.00	-
Irrigation costs	sum	12,375.00	1.00	12,375.00	1.00	12,375.00	10,827.00	1.00	10,827.00	2.22	24,060.00
Family labor	day	45.00	-	-	-	-	31.00	-	-	-	-
Other	sum		1.00	-	-	-		1.00	-	-	-
<b>Total expenditure</b>				<b>41,747.00</b>		<b>44,853.93</b>			<b>48,152.00</b>		<b>62,919.54</b>
<b>Gross Margin (BDT per ha)</b>				<b>601.00</b>		<b>21,296.88</b>			<b>14,048.00</b>		<b>34,188.52</b>
<b>Gross Margin (US\$ per ha)</b>				<b>7.74</b>		<b>274.23</b>			<b>180.89</b>		<b>440.23</b>

Notes:

No cost is imputed for family labor.

Source: IMIP PPTA farmer group discussions and consultants' estimates.

Table 3.2: Farm (0.2 ha). Crop Budget for Paddy - HYV Boro (Rabi) - Existing Electric Pump (1 ha)

	Unit	Without Project					With Project				
		Quantity	Financial		Economic		Quantity	Financial		Economic	
			Price per Unit (BDT)	Income & Expenditure (BDT)	Price per Unit (BDT)	Income & Expenditure (BDT)		Price per Unit (BDT)	Income & Expenditure (BDT)	Price per Unit (BDT)	Income & Expenditure (BDT)
<b>Outputs</b>											
Main product: Paddy - HYV Boro (Rabi) - Existing Electric Pump	ton	3.00	12,500.00	37,500.00	20,483.47	61,450.41	4.40	12,500.00	55,000.00	20,483.47	90,127.27
Byproduct: Paddy straw - Paddy - HYV Boro (Rabi)	ton	1.01	4,800.00	4,848.00	4,653.86	4,700.40	1.50	4,800.00	7,200.00	4,653.86	6,980.80
<b>Total income</b>				<b>42,348.00</b>		<b>66,150.81</b>			<b>62,200.00</b>		<b>97,108.06</b>
<b>Inputs</b>											
Paddy - HYV Boro (Rabi) - Existing Electric Pump seed	kg	98.00	29.00	2,842.00	28.12	2,755.48	50.00	29.00	1,450.00	28.12	1,405.85
Urea	kg	180.00	20.00	3,600.00	37.85	6,813.62	200.00	20.00	4,000.00	37.85	7,570.69
TSP	kg	98.00	29.00	2,842.00	42.86	4,200.34	100.00	29.00	2,900.00	42.86	4,286.06
MP	kg	50.00	17.00	850.00	42.64	2,131.99	50.00	17.00	850.00	42.64	2,131.99
Land preparation	sum	31.00	248.00	7,688.00	240.45	7,453.94	30.00	248.00	7,440.00	240.45	7,213.49
Plant protection	sum	1.50	1,400.00	2,100.00	1,357.38	2,036.07	2.40	1,400.00	3,360.00	1,357.38	3,257.71
Labor (hired) - Rabi	day	30.00	315.00	9,450.00	236.25	7,087.50	55.00	315.00	17,325.00	236.25	12,993.75
Labor (hired) - Kharif	day		300.00	-	225.00	-		300.00	-	225.00	-
Irrigation costs	sum	4,721.00	1.00	4,721.00	2.22	10,491.11	10,827.00	1.00	10,827.00	2.22	24,060.00
Family labor	day	45.00	-	-	-	-	31.00	-	-	-	-
Other	sum		1.00	-	-	-		1.00	-	-	-
<b>Total expenditure</b>				<b>34,093.00</b>		<b>42,970.04</b>			<b>48,152.00</b>		<b>62,919.54</b>
<b>Gross Margin (BDT per ha)</b>				<b>8,255.00</b>		<b>23,180.77</b>			<b>14,048.00</b>		<b>34,188.52</b>
<b>Gross Margin (US\$ per ha)</b>				<b>106.30</b>		<b>298.49</b>			<b>180.89</b>		<b>440.23</b>

Notes:

No cost is imputed for family labor.

Source: IMIP PPTA farmer group discussions and consultants' estimates.

Table 3.3: Farm (0.2 ha). Crop Budget for Paddy - HYV Aman (Kharif II) (1 ha)

	Unit	Without Project					With Project				
		Quantity	Financial		Economic		Quantity	Financial		Economic	
			Price per Unit (BDT)	Income & Expenditure (BDT)	Price per Unit (BDT)	Income & Expenditure (BDT)		Price per Unit (BDT)	Income & Expenditure (BDT)	Price per Unit (BDT)	Income & Expenditure (BDT)
<b>Outputs</b>											
Main product: Paddy - HYV Aman (Kharif II)	ton	2.10	12,800.00	26,880.00	20,483.47	43,015.29	3.50	12,800.00	44,800.00	20,483.47	71,692.14
Byproduct: Paddy straw - Paddy - HYV Aman (K	ton	0.90	8,630.00	7,767.00	8,367.26	7,530.53	1.60	8,630.00	13,808.00	8,367.26	13,387.62
<b>Total income</b>				<b>34,647.00</b>		<b>50,545.82</b>			<b>58,608.00</b>		<b>85,079.76</b>
<b>Inputs</b>											
Paddy - HYV Aman (Kharif II) seed	kg	90.00	28.00	2,520.00	27.15	2,443.28	60.00	28.00	1,680.00	27.15	1,628.85
Urea	kg	154.00	20.00	3,080.00	37.85	5,829.43	150.00	20.00	3,000.00	37.85	5,678.02
TSP	kg	11.00	29.00	319.00	42.86	471.47	75.00	29.00	2,175.00	42.86	3,214.54
MP	kg	10.00	17.00	170.00	42.64	426.40	25.00	17.00	425.00	42.64	1,065.99
Land preparation	sum	27.00	248.00	6,696.00	240.45	6,492.14	26.00	248.00	6,448.00	240.45	6,251.69
Plant protection	sum	0.57	1,400.00	798.00	1,357.38	773.71	0.50	1,400.00	700.00	1,357.38	678.69
Labor (hired) - Rabi	day		315.00	-	236.25	-		315.00	-	236.25	-
Labor (hired) - Kharif	day	30.00	300.00	9,000.00	225.00	6,750.00	50.00	300.00	15,000.00	225.00	11,250.00
Irrigation costs	sum		1.00	-	2.22	-	2,470.00	1.00	2,470.00	2.22	5,488.89
Family labor	day	45.00	-	-	-	-	32.00	-	-	-	-
Other	sum		1.00	-	-	-		1.00	-	-	-
<b>Total expenditure</b>				<b>22,583.00</b>		<b>23,186.42</b>			<b>31,898.00</b>		<b>35,256.68</b>
<b>Gross Margin (BDT per ha)</b>				<b>12,064.00</b>		<b>27,359.40</b>			<b>26,710.00</b>		<b>49,823.08</b>
<b>Gross Margin (US\$ per ha)</b>				<b>155.34</b>		<b>352.30</b>			<b>343.94</b>		<b>641.55</b>

Notes:

No cost is imputed for family labor.

Source: IMIIP PPTA farmer group discussions and consultants' estimates.

Table 3.4: Farm (0.2 ha). Crop Budget for Potato (Rabi) (1 ha)

	Unit	Quantity	Without Project				With Project				
			Financial		Economic		Financial		Economic		
			Price per Unit (BDT)	Income & Expenditure (BDT)	Price per Unit (BDT)	Income & Expenditure (BDT)	Price per Unit (BDT)	Income & Expenditure (BDT)	Price per Unit (BDT)	Income & Expenditure (BDT)	
<b>Outputs</b>											
Main product: Potato (Rabi)	ton		12,450.00	-	12,070.96	-	10.00	12,450.00	124,500.00	12,070.96	120,709.62
Byproduct:	ton		0.00	-	0.00	-		0.00	-	0.00	-
<b>Total income</b>				-		-		<b>124,500.00</b>			<b>120,709.62</b>
<b>Inputs</b>											
Potato (Rabi) seed	kg		22.00	-	21.33	-	900.00	22.00	19,800.00	21.33	19,197.19
Urea	kg		20.00	-	37.85	-	200.00	20.00	4,000.00	37.85	7,570.69
TSP	kg		29.00	-	42.86	-	100.00	29.00	2,900.00	42.86	4,286.06
MP	kg		17.00	-	42.64	-	75.00	17.00	1,275.00	42.64	3,197.98
Land preparation	sum		248.00	-	240.45	-	35.00	248.00	8,680.00	240.45	8,415.74
Plant protection	sum		1,400.00	-	1,357.38	-	3.00	1,400.00	4,200.00	1,357.38	4,072.13
Labor (hired) - Rabi	day		315.00	-	236.25	-	70.00	315.00	22,050.00	236.25	16,537.50
Labor (hired) - Kharif	day		300.00	-	225.00	-		300.00	-	225.00	-
Irrigation costs	sum		1.00	-	2.22	-	2,470.00	1.00	2,470.00	2.22	5,488.89
Family labor	day		-	-	-	-	75.00	-	-	-	-
Other	sum		1.00	-	-	-		1.00	-	-	-
<b>Total expenditure</b>				-		-		<b>65,375.00</b>			<b>68,766.18</b>
<b>Gross Margin (BDT per ha)</b>				-		-		<b>59,125.00</b>			<b>51,943.43</b>
<b>Gross Margin (US\$ per ha)</b>				-		-		<b>761.33</b>			<b>668.86</b>

Notes:

No cost is imputed for family labor.

Source: IMIIP PPTA farmer group discussions and consultants' estimates.

Table 3.5: Farm (0.2 ha). Crop Budget for Vegetables (Kharif I) (1 ha)

	Unit	Without Project				With Project					
		Quantity	Financial		Economic		Quantity	Financial		Economic	
			Price per Unit (BDT)	Income & Expenditure (BDT)	Price per Unit (BDT)	Income & Expenditure (BDT)		Price per Unit (BDT)	Income & Expenditure (BDT)	Price per Unit (BDT)	Income & Expenditure (BDT)
<b>Outputs</b>											
Main product: Vegetables (Kharif I)	ton		10,000.00	-	9,695.55	-	12.00	10,000.00	120,000.00	9,695.55	116,346.62
Byproduct:	ton		0.00	-	0.00	-		0.00	-	0.00	-
<b>Total income</b>				-		-		<b>120,000.00</b>			<b>116,346.62</b>
<b>Inputs</b>											
Vegetables (Kharif I) seed	kg		3,500.00	-	3,393.44	-	1.50	3,500.00	5,250.00	3,393.44	5,090.16
Urea	kg		20.00	-	37.85	-	120.00	20.00	2,400.00	37.85	4,542.42
TSP	kg		29.00	-	42.86	-	100.00	29.00	2,900.00	42.86	4,286.06
MP	kg		17.00	-	42.64	-	25.00	17.00	425.00	42.64	1,065.99
Land preparation	sum		248.00	-	240.45	-	60.00	248.00	14,880.00	240.45	14,426.98
Plant protection	sum		1,400.00	-	1,357.38	-	1.00	1,400.00	1,400.00	1,357.38	1,357.38
Labor (hired) - Rabi	day		315.00	-	236.25	-		315.00	-	236.25	-
Labor (hired) - Kharif	day		300.00	-	225.00	-	20.00	300.00	6,000.00	225.00	4,500.00
Irrigation costs	sum		1.00	-	2.22	-	2,700.00	1.00	2,700.00	2.22	6,000.00
Family labor	day		-	-	-	-	75.00	-	-	-	-
Other	sum		1.00	-	-	-		1.00	-	-	-
<b>Total expenditure</b>				-		-		<b>35,955.00</b>			<b>41,268.99</b>
<b>Gross Margin (BDT per ha)</b>				-		-		<b>84,045.00</b>			<b>75,077.63</b>
<b>Gross Margin (US\$ per ha)</b>				-		-		<b>1,082.22</b>			<b>966.75</b>

Notes:

No cost is imputed for family labor.

Source: IMIIP PPTA farmer group discussions and consultants' estimates.

Table 3.6: Farm (1.0 ha). Crop Budget for Paddy - HYV Boro (Rabi) - Existing Diesel Pump (1 ha)

	Unit	Without Project					With Project				
		Quantity	Financial		Economic		Quantity	Financial		Economic	
			Price per Unit (BDT)	Income & Expenditure (BDT)	Price per Unit (BDT)	Income & Expenditure (BDT)		Price per Unit (BDT)	Income & Expenditure (BDT)	Price per Unit (BDT)	Income & Expenditure (BDT)
<b>Outputs</b>											
Main product: Paddy - HYV Boro (Rabi) - Existing Diesel Pump	ton	3.00	12,500.00	37,500.00	20,483.47	61,450.41	4.40	12,500.00	55,000.00	20,483.47	90,127.27
Byproduct: Paddy straw - Paddy - HYV Boro (Rabi)	ton	1.10	4,800.00	5,280.00	4,653.86	5,119.25	1.30	4,800.00	6,240.00	4,653.86	6,050.02
<b>Total income</b>				<b>42,780.00</b>		<b>66,569.66</b>			<b>61,240.00</b>		<b>96,177.29</b>
<b>Inputs</b>											
Paddy - HYV Boro (Rabi) - Existing Diesel Pump seed	kg	62.00	29.00	1,798.00	28.12	1,743.26	60.00	29.00	1,740.00	28.12	1,687.03
Urea	kg	200.00	20.00	4,000.00	37.85	7,570.69	200.00	20.00	4,000.00	37.85	7,570.69
TSP	kg	90.00	29.00	2,610.00	42.86	3,857.45	100.00	29.00	2,900.00	42.86	4,286.06
MP	kg	34.00	17.00	578.00	42.64	1,449.75	50.00	17.00	850.00	42.64	2,131.99
Land preparation	sum	37.00	248.00	9,176.00	240.45	8,896.64	28.00	248.00	6,944.00	240.45	6,732.59
Plant protection	sum	0.88	1,400.00	1,232.00	1,357.38	1,194.49	2.50	1,400.00	3,500.00	1,357.38	3,393.44
Labor (hired) - Rabi	day	45.00	315.00	14,175.00	236.25	10,631.25	60.00	315.00	18,900.00	236.25	14,175.00
Labor (hired) - Kharif	day		300.00	-	225.00	-		300.00	-	225.00	-
Irrigation costs	sum	12,375.00	1.00	12,375.00	1.00	12,375.00	10,827.00	1.00	10,827.00	2.22	24,060.00
Family labor	day	47.00	-	-	-	-	28.00	-	-	-	-
Other	sum		1.00	-	-	-		1.00	-	-	-
<b>Total expenditure</b>				<b>45,944.00</b>		<b>47,718.54</b>			<b>49,661.00</b>		<b>64,036.80</b>
<b>Gross Margin (BDT per ha)</b>				<b>(3,164.00)</b>		<b>18,851.12</b>			<b>11,579.00</b>		<b>32,140.49</b>
<b>Gross Margin (US\$ per ha)</b>				<b>(40.74)</b>		<b>242.74</b>			<b>149.10</b>		<b>413.86</b>

Notes:

No cost is imputed for family labor.

Other costs (marketing, and other crop-specific costs) assumed at 0% of main product income.

Source: IMIP PPTA farmer group discussions and consultants' estimates.

Table 3.7: Farm (1.0 ha). Crop Budget for Paddy - HYV Boro (Rabi) - Existing Electric Pump (1 ha)

	Unit	Without Project					With Project				
		Quantity	Financial		Economic		Quantity	Financial		Economic	
			Price per Unit (BDT)	Income & Expenditure (BDT)	Price per Unit (BDT)	Income & Expenditure (BDT)		Price per Unit (BDT)	Income & Expenditure (BDT)	Price per Unit (BDT)	Income & Expenditure (BDT)
<b>Outputs</b>											
Main product: Paddy - HYV Boro (Rabi) - Existing Electric Pump	ton	3.00	12,500.00	37,500.00	20,483.47	61,450.41	4.40	12,500.00	55,000.00	20,483.47	90,127.27
Byproduct: Paddy straw - Paddy - HYV Boro (Rabi)	ton	1.10	4,800.00	5,280.00	4,653.86	5,119.25	1.30	4,800.00	6,240.00	4,653.86	6,050.02
<b>Total income</b>				<b>42,780.00</b>		<b>66,569.66</b>			<b>61,240.00</b>		<b>96,177.29</b>
<b>Inputs</b>											
Paddy - HYV Boro (Rabi) - Existing Electric Pump seed	kg	62.00	29.00	1,798.00	28.12	1,743.26	60.00	29.00	1,740.00	28.12	1,687.03
Urea	kg	200.00	20.00	4,000.00	37.85	7,570.69	200.00	20.00	4,000.00	37.85	7,570.69
TSP	kg	90.00	29.00	2,610.00	42.86	3,857.45	100.00	29.00	2,900.00	42.86	4,286.06
MP	kg	34.00	17.00	578.00	42.64	1,449.75	50.00	17.00	850.00	42.64	2,131.99
Land preparation	sum	37.00	248.00	9,176.00	240.45	8,896.64	28.00	248.00	6,944.00	240.45	6,732.59
Plant protection	sum	0.88	1,400.00	1,232.00	1,357.38	1,194.49	2.50	1,400.00	3,500.00	1,357.38	3,393.44
Labor (hired) - Rabi	day	45.00	315.00	14,175.00	236.25	10,631.25	60.00	315.00	18,900.00	236.25	14,175.00
Labor (hired) - Kharif	day		300.00	-	225.00	-		300.00	-	225.00	-
Irrigation costs	sum	4,721.00	1.00	4,721.00	2.22	10,491.11	10,827.00	1.00	10,827.00	2.22	24,060.00
Family labor	day	47.00	-	-	-	-	28.00	-	-	-	-
Other	sum		1.00	-	-	-		1.00	-	-	-
<b>Total expenditure</b>				<b>38,290.00</b>		<b>45,834.65</b>			<b>49,661.00</b>		<b>64,036.80</b>
<b>Gross Margin (BDT per ha)</b>				<b>4,490.00</b>		<b>20,735.01</b>			<b>11,579.00</b>		<b>32,140.49</b>
<b>Gross Margin (US\$ per ha)</b>				<b>57.82</b>		<b>267.00</b>			<b>149.10</b>		<b>413.86</b>

Notes:

No cost is imputed for family labor.

Other costs (marketing, and other crop-specific costs) assumed at 0% of main product income.

Source: IMIP PPTA farmer group discussions and consultants' estimates.

Table 3.8: Farm (1.0 ha). Crop Budget for Paddy - HYV Aman (Kharif II) (1 ha)

	Unit	Quantity	Without Project				With Project				
			Financial		Economic		Quantity	Financial		Economic	
			Price per Unit (BDT)	Income & Expenditure (BDT)	Price per Unit (BDT)	Income & Expenditure (BDT)		Price per Unit (BDT)	Income & Expenditure (BDT)	Price per Unit (BDT)	Income & Expenditure (BDT)
<b>Outputs</b>											
Main product: Paddy - HYV Aman (Kharif II)	ton	2.45	12,800.00	31,360.00	20,483.47	50,184.50	3.40	12,800.00	43,520.00	20,483.47	69,643.80
Byproduct: Paddy straw - Paddy - HYV Aman (K	ton	1.20	8,630.00	10,356.00	8,367.26	10,040.71	1.50	8,630.00	12,945.00	8,367.26	12,550.89
<b>Total income</b>				<b>41,716.00</b>		<b>60,225.21</b>			<b>56,465.00</b>		<b>82,194.69</b>
<b>Inputs</b>											
Paddy - HYV Aman (Kharif II) seed	kg	62.00	28.00	1,736.00	27.15	1,683.15	60.00	28.00	1,680.00	27.15	1,628.85
Urea	kg	140.00	20.00	2,800.00	37.85	5,299.48	150.00	20.00	3,000.00	37.85	5,678.02
TSP	kg	44.00	29.00	1,276.00	42.86	1,885.86	75.00	29.00	2,175.00	42.86	3,214.54
MP	kg	31.00	17.00	527.00	42.64	1,321.83	25.00	17.00	425.00	42.64	1,065.99
Land preparation	sum	33.00	248.00	8,184.00	240.45	7,934.84	27.00	248.00	6,696.00	240.45	6,492.14
Plant protection	sum	0.44	1,400.00	616.00	1,357.38	597.25	1.50	1,400.00	2,100.00	1,357.38	2,036.07
Labor (hired) - Rabi	day		315.00	-	236.25	-		315.00	-	236.25	-
Labor (hired) - Kharif	day	50.00	300.00	15,000.00	225.00	11,250.00	60.00	300.00	18,000.00	225.00	13,500.00
Irrigation costs	sum		1.00	-	2.22	-	2,470.00	1.00	2,470.00	2.22	5,488.89
Family labor	day	40.00	-	-	-	-	32.00	-	-	-	-
Other	sum		1.00	-	-	-		1.00	-	-	-
<b>Total expenditure</b>				<b>30,139.00</b>		<b>29,972.42</b>			<b>36,546.00</b>		<b>39,104.50</b>
<b>Gross Margin (BDT per ha)</b>				<b>11,577.00</b>		<b>30,252.80</b>			<b>19,919.00</b>		<b>43,090.18</b>
<b>Gross Margin (US\$ per ha)</b>				<b>149.07</b>		<b>389.55</b>			<b>256.49</b>		<b>554.86</b>

Notes:

No cost is imputed for family labor.

Other costs (marketing, and other crop-specific costs) assumed at 0% of main product income.

Source: IMIIP PPTA farmer group discussions and consultants' estimates.



Table 3.9: Farm (1.0 ha). Crop Budget for Potato (Rabi) (1 ha)

	Unit	Quantity	Without Project				With Project				
			Financial		Economic		Financial		Economic		
			Price per Unit (BDT)	Income & Expenditure (BDT)	Price per Unit (BDT)	Income & Expenditure (BDT)	Price per Unit (BDT)	Income & Expenditure (BDT)	Price per Unit (BDT)	Income & Expenditure (BDT)	
<b>Outputs</b>											
Main product: Potato (Rabi)	ton		12,450.00	-	12,070.96	-	12,450.00	149,400.00	12,070.96	144,851.54	
Byproduct:	ton		0.00	-	0.00	-	0.00	-	0.00	-	
<b>Total income</b>				-		-		<b>149,400.00</b>		<b>144,851.54</b>	
<b>Inputs</b>											
Potato (Rabi) seed	kg		22.00	-	21.33	-	900.00	22.00	19,800.00	21.33	19,197.19
Urea	kg		20.00	-	37.85	-	250.00	20.00	5,000.00	37.85	9,463.36
TSP	kg		29.00	-	42.86	-	200.00	29.00	5,800.00	42.86	8,572.11
MP	kg		17.00	-	42.64	-	100.00	17.00	1,700.00	42.64	4,263.98
Land preparation	sum		248.00	-	240.45	-	45.00	248.00	11,160.00	240.45	10,820.24
Plant protection	sum		1,400.00	-	1,357.38	-	4.50	1,400.00	6,300.00	1,357.38	6,108.20
Labor (hired) - Rabi	day		315.00	-	236.25	-	100.00	315.00	31,500.00	236.25	23,625.00
Labor (hired) - Kharif	day		300.00	-	225.00	-		300.00	-	225.00	-
Irrigation costs	sum		1.00	-	2.22	-	2,470.00	1.00	2,470.00	2.22	5,488.89
Family labor	day		-	-	-	-	115.00	-	-	-	-
Other	sum		-	-	-	-	1.00	-	-	-	-
<b>Total expenditure</b>				-		-		<b>83,730.00</b>		<b>87,538.97</b>	
<b>Gross Margin (BDT per ha)</b>				-		-		<b>65,670.00</b>		<b>57,312.57</b>	
<b>Gross Margin (US\$ per ha)</b>				-		-		<b>845.61</b>		<b>737.99</b>	

Notes:

No cost is imputed for family labor.

Other costs (marketing, and other crop-specific costs) assumed at 0% of main product income.

Source: IMIIP PPTA farmer group discussions and consultants' estimates.

Table 3.10: Farm (1.0 ha). Crop Budget for Vegetables (Kharif I) (1 ha)

	Unit	Quantity	Without Project				With Project				
			Financial		Economic		Financial		Economic		
			Price per Unit (BDT)	Income & Expenditure (BDT)	Price per Unit (BDT)	Income & Expenditure (BDT)	Price per Unit (BDT)	Income & Expenditure (BDT)	Price per Unit (BDT)	Income & Expenditure (BDT)	Income & Expenditure (BDT)
<b>Outputs</b>											
Main product: Vegetables (Kharif I)	ton	12.40	10,000.00	124,000.00	9,695.55	120,224.84	16.00	10,000.00	160,000.00	9,695.55	155,128.82
Byproduct:	ton	-	0.00	-	0.00	-	0.00	-	-	0.00	-
<b>Total income</b>				<b>124,000.00</b>		<b>120,224.84</b>			<b>160,000.00</b>		<b>155,128.82</b>
<b>Inputs</b>											
Vegetables (Kharif I) seed	kg	3.00	3,500.00	10,500.00	3,393.44	10,180.33	1.50	3,500.00	5,250.00	3,393.44	5,090.16
Urea	kg	140.00	20.00	2,800.00	37.85	5,299.48	150.00	20.00	3,000.00	37.85	5,678.02
TSP	kg	66.00	29.00	1,914.00	42.86	2,828.80	100.00	29.00	2,900.00	42.86	4,286.06
MP	kg	58.00	17.00	986.00	42.64	2,473.11	50.00	17.00	850.00	42.64	2,131.99
Land preparation	sum	38.00	248.00	9,424.00	240.45	9,137.09	44.00	248.00	10,912.00	240.45	10,579.79
Plant protection	sum	0.30	1,400.00	420.00	1,357.38	407.21	1.50	1,400.00	2,100.00	1,357.38	2,036.07
Labor (hired) - Rabi	day		315.00	-	236.25	-		315.00	-	236.25	-
Labor (hired) - Kharif	day	60.00	300.00	18,000.00	225.00	13,500.00	60.00	300.00	18,000.00	225.00	13,500.00
Irrigation costs	sum		1.00	-	2.22	-	2,470.00	1.00	2,470.00	2.22	5,488.89
Family labor	day	180.00	-	-	-	-	210.00	-	-	-	-
Other	sum		1.00	-	-	-		1.00	-	-	-
<b>Total expenditure</b>				<b>44,044.00</b>		<b>43,826.02</b>			<b>45,482.00</b>		<b>48,790.97</b>
<b>Gross Margin (BDT per ha)</b>				<b>79,956.00</b>		<b>76,398.82</b>			<b>114,518.00</b>		<b>106,337.85</b>
<b>Gross Margin (US\$ per ha)</b>				<b>1,029.56</b>		<b>983.76</b>			<b>1,474.61</b>		<b>1,369.27</b>

Notes:

No cost is imputed for family labor.

Other costs (marketing, and other crop-specific costs) assumed at 0% of main product income.

Source: IMIIP PPTA farmer group discussions and consultants' estimates.

Table 3.11: Farm (1.0 ha). Crop Budget for Pulses (Rabi) (1 ha)

	Unit	Quantity	Without Project				With Project					
			Financial		Economic		Financial		Economic			
			Price per Unit (BDT)	Income & Expenditure (BDT)	Price per Unit (BDT)	Income & Expenditure (BDT)	Price per Unit (BDT)	Income & Expenditure (BDT)	Price per Unit (BDT)	Income & Expenditure (BDT)		
<b>Outputs</b>												
Main product: Pulses (Rabi)	ton	0.40	55,000.00	22,000.00	53,325.53	21,330.21	0.90	55,000.00	49,500.00	53,325.53	47,992.98	
Byproduct:	ton		0.00	-	0.00	-		0.00	-	0.00	-	
<b>Total income</b>				<b>22,000.00</b>		<b>21,330.21</b>			<b>49,500.00</b>		<b>47,992.98</b>	
<b>Inputs</b>												
Pulses (Rabi) seed	kg	20.00	150.00	3,000.00	145.43	2,908.67	50.00	150.00	7,500.00	145.43	7,271.66	
Urea	kg	22.00	20.00	440.00	37.85	832.78	25.00	20.00	500.00	37.85	946.34	
TSP	kg	14.00	29.00	406.00	42.86	600.05	12.00	29.00	348.00	42.86	514.33	
MP	kg		17.00	-	42.64	-	5.00	17.00	85.00	42.64	213.20	
Land preparation	day	20.00	248.00	4,960.00	240.45	4,808.99	20.00	248.00	4,960.00	240.45	4,808.99	
Plant protection	liter		1,400.00	-	1,357.38	-		1,400.00	-	1,357.38	-	
Labor (hired) - Rabi	day	5.00	315.00	1,575.00	236.25	1,181.25	10.00	315.00	3,150.00	236.25	2,362.50	
Labor (hired) - Kharif	day		300.00	-	225.00	-		300.00	-	225.00	-	
Irrigation costs	sum		1.00	-	2.22	-	2,740.00	1.00	2,740.00	2.22	6,088.89	
Family labor	day	45.00	-	-	-	-	45.00	-	-	-	-	
Other	sum		1.00	-	-	-		1.00	-	-	-	
<b>Total expenditure</b>				<b>10,381.00</b>		<b>10,331.73</b>			<b>19,283.00</b>		<b>22,205.91</b>	
<b>Gross Margin (BDT per ha)</b>				<b>11,619.00</b>		<b>10,998.48</b>			<b>30,217.00</b>		<b>25,787.07</b>	
<b>Gross Margin (US\$ per ha)</b>				<b>149.61</b>		<b>141.62</b>			<b>389.09</b>		<b>332.05</b>	

Notes:

No cost is imputed for family labor.

Other costs (marketing, and other crop-specific costs) assumed at 0% of main product income.

Source: IMIIP PPTA farmer group discussions and consultants' estimates.

Table 3.12: Farm (0.2 ha). Farm Budget (0.2 ha) - Financial Prices

	Without Project			With Project		
	Area (ha)	Margin (BDT per ha)	Net Income (BDT)	Area (ha)	Margin (BDT per ha)	Net Income (BDT)
<b>Income from Crops (Gross)</b>						
Paddy - HYV Boro (Rabi) - Existing Diesel Pump	0.15	601.00	90.15	0.17	14,048.00	2,388.16
Paddy - HYV Boro (Rabi) - Existing Electric Pump		8,255.00	-		14,048.00	-
Paddy - HYV Aman (Kharif II)	0.12	12,064.00	1,447.68	0.16	26,710.00	4,273.60
Potato (Rabi)		-	-	0.02	59,125.00	1,182.50
Vegetables (Kharif I)		-	-	0.02	84,045.00	2,017.08
		-	-		-	-
		-	-		-	-
		-	-		-	-
Paddy - HYV Boro (Rabi)		3,221.00	-		14,935.00	-
<b>Total</b>	<b>0.27</b>		<b>1,537.83</b>	<b>0.37</b>		<b>9,861.34</b>
<b>Cropping Intensity (%)</b>	<b>135</b>			<b>187</b>		
<b>Other Crop Income (not incl in crop budgets)</b>						
<b>Other Crop Costs (not incl in crop budgets)</b>						
Land rent						
Loan interest						
Irrigation charges						
Other						
Total Other Crop Costs			-			-
<b>Non-crop Farm Income (Net)</b>			<b>61,500.00</b>			<b>65,900.00</b>
<b>Net Farm Income (BDT)</b>			<b>63,037.83</b>			<b>75,761.34</b>
<b>Net Farm Income (BDT per ha)</b>			<b>315,189.15</b>			<b>378,806.70</b>
<b>Net Farm Income (US\$)</b>			<b>811.72</b>			<b>975.55</b>
<b>Net Farm Income (US\$ per ha)</b>			<b>4,058.58</b>			<b>4,877.76</b>
<b>Family labor (days)</b>			<b>12</b>			<b>18</b>
Hired labor	5			11		
<b>Net Farm Income (BDT per Family Labor Day)</b>			<b>5,253.15</b>			<b>4,208.96</b>
<b>Net Farm Income (US\$ per Family Labor Day)</b>			<b>67.64</b>			<b>54.20</b>

Notes:

Net income from other crops, Other farm income (Gross) and Other farm costs are included as lump sums.

Source: IMIIP PPTA farmer group discussions and consultants' estimates.

Table 3.13: Farm (1.0 ha). Farm Budget (1 ha) - Financial Prices

	Without Project			With Project		
	Area (ha)	Margin (BDT per ha)	Net Income (BDT)	Area (ha)	Margin (BDT per ha)	Net Income (BDT)
<b>Income from Crops (Gross)</b>						
Paddy - HYV Boro (Rabi) - Existing Diesel Pump	0.60	(3,164.00)	(1,898.40)	0.80	11,579.00	9,263.20
Paddy - HYV Boro (Rabi) - Existing Electric Pump		4,490.00	-		11,579.00	-
Paddy - HYV Aman (Kharif II)	0.40	11,577.00	4,630.80	0.60	19,919.00	11,951.40
Potato (Rabi)		-	-	0.10	65,670.00	6,567.00
Vegetables (Kharif I)	0.02	79,956.00	1,599.12	0.10	114,518.00	11,451.80
Pulses (Rabi)	0.01	11,619.00	116.19	0.05	30,217.00	1,510.85
		-	-		-	-
		-	-		-	-
Paddy - HYV Boro (Rabi)		1,456.00	-		11,216.00	-
<b>Total</b>	<b>1.03</b>		<b>4,447.71</b>	<b>1.65</b>		<b>40,744.25</b>
<b>Cropping Intensity (%)</b>	<b>103</b>			<b>165</b>		
<b>Other Crop Income (not incl in crop budgets)</b>						
<b>Other Crop Costs (not incl in crop budgets)</b>						
Land rent						
Loan interest						
Irrigation charges						
Other						
<b>Total Other Crop Costs</b>			<b>-</b>			<b>-</b>
<b>Non-crop Farm Income (Net)</b>			<b>78,700.00</b>			<b>83,400.00</b>
<b>Net Farm Income (BDT)</b>			<b>83,147.71</b>			<b>124,144.25</b>
<b>Net Farm Income (BDT per ha)</b>			<b>83,147.71</b>			<b>124,144.25</b>
<b>Net Farm Income (US\$)</b>			<b>1,070.66</b>			<b>1,598.56</b>
<b>Net Farm Income (US\$ per ha)</b>			<b>1,070.66</b>			<b>1,598.56</b>
<b>Family labor (days)</b>			<b>48</b>			<b>93</b>
Hired labor	27			59		
<b>Net Farm Income (BDT per Family Labor Day)</b>			<b>1,732.24</b>			<b>1,334.88</b>
<b>Net Farm Income (US\$ per Family Labor Day)</b>			<b>22.31</b>			<b>17.19</b>

Notes:

Net income from other crops, Other farm income (Gross) and Other farm costs are included as lump sums.

Source: Mission appraisal of project area farms.

**Table 3.14: Prices Used in Financial and Economic Analyses**  
(Constant 2013 BDT)

Item		Financial	Economic	CF
<b>Agricultural Outputs</b>				
Paddy - HYV Boro (Rabi) - Existing Diesel Pump	ton	12,500.00	20,483.47	1.64
Paddy - HYV Boro (Rabi) - Existing Electric Pump	ton	12,500.00	20,483.47	1.64
Paddy - HYV Aman (Kharif II)	ton	12,800.00	20,483.47	1.60
Potato (Rabi)	ton	12,450.00	12,070.96	0.97
Vegetables (Kharif I)	ton	10,000.00	9,695.55	0.97
Pulses (Rabi)	ton	55,000.00	53,325.53	0.97
Paddy straw - Paddy - HYV Boro (Rabi)	ton	4,800.00	4,653.86	0.97
Paddy straw - Paddy - HYV Aman (Kharif II)	ton	8,630.00	8,367.26	0.97
<b>Agricultural Inputs</b>				
Seeds/planting material				
Paddy - HYV Boro (Rabi) - Existing Diesel Pump seed	kg	29.00	28.12	0.97
Paddy - HYV Boro (Rabi) - Existing Electric Pump seed	kg	29.00	28.12	0.97
Paddy - HYV Aman (Kharif II) seed	kg	28.00	27.15	0.97
Potato (Rabi) seed	kg	22.00	21.33	0.97
Vegetables (Kharif I) seed	kg	3,500.00	3,393.44	0.97
Pulses (Rabi) seed	kg	150.00	145.43	0.97
Urea	kg	20.00	37.85	1.89
TSP	kg	29.00	42.86	1.48
MP	kg	17.00	42.64	2.51
Land preparation	sum	248.00	240.45	0.97
Plant protection	liter	1,400.00	1,357.38	0.97
Labor (hired) - Rabi	day	315.00	236.25	0.75
Labor (hired) - Kharif	day	300.00	225.00	0.75
Irrigation costs	ha	1.00	2.22	2.22

Source: IMIIP PPTA farmer group discussions and consultants' estimates.

Table 3.15: Export Parity Price - Rice				
Item	%	Unit	Price	
FOB, port of origin <sup>a</sup>		\$/ton	507.00	
Less: Freight & insurance to Bangladesh border		\$/ton	(20.00)	
FOB, Bangladesh border		\$/ton	487.00	
Adjusted border price (adjusted by SERF)	1.03	\$/ton	502.29	
Border price, Bangladesh border		BDT/ton	39,008.01	
Less: Quality adjustment for local product (10%)	10.0	BDT/ton	(3,900.80)	
Border price, Bangladesh border, local equivalent		BDT/ton	35,107.21	
Less: Handling charges and storage costs at border, Bangladesh border (2.5%)	2.5	BDT/ton	(877.68)	
Less: Transport, loading, unloading and insurance costs to mill (5%)	5.0	BDT/ton	(1,755.36)	
Equivalent price at mill		BDT/ton	32,474.17	
Milling conversion rate - rice to paddy (65%)	65.0	BDT/ton	21,108.21	
Less: Farm to market transport and handling <sup>b</sup>		BDT/ton	(300.00)	
Less: Farm storage, losses and related costs (1%)	1.0	BDT/ton	(324.74)	
Plus: Value of straw byproduct (5%)	5.0	BDT/ton	1,024.17	
Export parity farm gate price		BDT/ton	20,483.47	

## Notes:

a. Rice (Thailand), 5% broken, white rice, f.o.b. Bangkok. Source: World Bank. December 2012. *Commodity Price Data (Pink Sheet)*.

b. Average distance of 100 km at BDT3.00/ton/km.

Source: IMIIP PPTA consultants' estimates

Table 3.16: Import Parity Price - Urea (N 46%)

Item		Unit	Price
FOB, port of origin <sup>a</sup>		\$/ton	407.80
Add: Freight & insurance to Bangladesh border		\$/ton	20.00
CIF, Bangladesh border		\$/ton	427.80
Adjusted border price (adjusted by SERF)		\$/ton	441.23
Border price, Bangladesh border		BDT/ton	34,266.18
Plus: Handling charges and storage costs at border, Bangladesh border (2.5%)	2.5	BDT/ton	856.65
Plus: Transport, loading, unloading and insurance costs to market/dealers (2.5%)	2.5	BDT/ton	856.65
Equivalent price delivered to market/dealers		BDT/ton	35,979.49
Plus: Dealer costs, handling and margin (5%)	5.0	BDT/ton	1,798.97
Dealer price		BDT/ton	37,778.46
Farm to market transport and handling <sup>b</sup>		BDT/ton	75.00
Import parity farm gate price		BDT/ton	37,853.46

## Notes:

a. Urea, bulk, spot, f.o.b. Eastern Europe. Source: World Bank. December 2012. *Commodity Price Data (Pink Sheet)*.

b. Average distance of 25 km at BDT3.00/ton/km.

Source: IMIIP PPTA consultants' estimates



Table 3.17: Import Parity Price - Triplesuperphosphate (TSP)		
Item		Price
FOB, port of origin <sup>a</sup>		\$/ton 464.50
Add: Freight & insurance to Bangladesh border		\$/ton 20.00
CIF, Bangladesh border		\$/ton 484.50
Adjusted border price (adjusted by SERF)		\$/ton 499.71
Border price, Bangladesh border		BDT/ton 38,807.77
Plus: Handling charges and storage costs at border, Bangladesh border (2.5%)	2.5	BDT/ton 970.19
Plus: Transport, loading, unloading and insurance costs to market/dealers (2.5%)	2.5	BDT/ton 970.19
Equivalent price delivered to market/dealers		BDT/ton 40,748.16
Plus: Dealer costs, handling and margin (5%)	5.0	BDT/ton 2,037.41
Dealer price		BDT/ton 42,785.56
Farm to market transport and handling <sup>b</sup>		BDT/ton 75.00
Import parity farm gate price		BDT/ton 42,860.56

Notes:

a. TSP Tunisian, granular, f.o.b. Source: World Bank. December 2012. *Commodity Price Data (Pink Sheet)*.

b. Average distance of 25 km at BDT3.00/ton/km.

Source: IMIIP PPTA consultants' estimates

**Table 3.18: Import Parity Price - Muriate of Potash (MP)**

Item		Unit	Price
FOB, port of origin <sup>a</sup>		\$/ton	462.00
Add: Freight & insurance to Bangladesh border		\$/ton	20.00
CIF, Bangladesh border		\$/ton	482.00
Adjusted border price (adjusted by SERF)		\$/ton	497.14
Border price, Bangladesh border		BDT/ton	38,607.52
Plus: Handling charges and storage costs at border, Bangladesh border (2.5%)	2.5	BDT/ton	965.19
Plus: Transport, loading, unloading and insurance costs to market/dealers (2.5%)	2.5	BDT/ton	965.19
Equivalent price delivered to market/dealers		BDT/ton	40,537.90
Plus: Dealer costs, handling and margin (5%)	5.0	BDT/ton	2,026.89
Dealer price		BDT/ton	42,564.79
Farm to market transport and handling <sup>b</sup>		BDT/ton	75.00
Import parity farm gate price		BDT/ton	42,639.79

Notes:

a. Potassium chloride, standard grade, spot, f.o.b. Vancouver. Source: World Bank. December 2012. *Commodity Price Data (Pink Sheet)*.

b. Average distance of 25 km at BDT3.00/ton/km.

Source: IMIIP PPTA consultants' estimates

**Table 3.19: Calculation of Standard Conversion Factor**

<b>Item</b>	<b>(BDT m)</b>	
	<b>2012</b>	
Imports		2,622,934.00
Import duties		145,300.00
Import subsidies		
Duties:imports	%	5.5
Exports		1,991,591.40
Export taxes		400.00
Export subsidies		
Taxes:exports	%	0.0
Standard Conversion Factor (SCF)		0.97
SERF (1/SCF)		1.03

Source: Bangladesh Bank

Table 3.20: Irrigation Management Improvement Investment Program - Muhuri Irrigation Project: Economic Cash Flow (US\$ million)

Item	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2033
<b>Incremental Crop Gross Margins</b>											
<b>Crop</b>											
Paddy - HYV Boro (Rabi)	0.000	(0.255)	(0.290)	0.659	2.315	3.900	3.900	3.900	3.900	3.900	3.900
Paddy - HYV Aman (Kharif II)	0.000	0.111	0.443	1.330	2.661	3.769	3.769	3.769	3.769	3.769	3.769
Potato (Rabi)	0.000	0.036	0.145	0.436	0.872	1.235	1.235	1.235	1.235	1.235	1.235
Vegetables (Kharif I)	0.000	0.076	0.304	0.912	1.824	2.584	2.584	2.584	2.584	2.584	2.584
Pulses (Rabi)	0.000	0.000	0.002	0.007	0.015	0.022	0.022	0.022	0.022	0.022	0.022
<b>Total</b>	<b>0.000</b>	<b>(0.032)</b>	<b>0.605</b>	<b>3.345</b>	<b>7.687</b>	<b>11.511</b>	<b>11.511</b>	<b>11.511</b>	<b>11.511</b>	<b>11.511</b>	<b>11.511</b>
<b>Costs</b>											
<b>Investment</b>											
<b>Coastal Flood Protection</b>											
Rehabilitation of coastal embankment	0.078	0.235	0.314	0.157	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Coastal flood protection structures	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>Subtotal</b>	<b>0.078</b>	<b>0.235</b>	<b>0.314</b>	<b>0.157</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
<b>Main River System and Reservoir</b>											
Repairs to water and flood control structures	0.000	0.000	0.047	0.047	0.063	0.000	0.000	0.000	0.000	0.000	0.000
New water and flood control structures	0.000	0.000	0.724	0.724	0.965	0.000	0.000	0.000	0.000	0.000	0.000
<b>Subtotal</b>	<b>0.000</b>	<b>0.000</b>	<b>0.771</b>	<b>0.771</b>	<b>1.027</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
Excavation of Khals	0.831	2.493	1.662	2.493	0.831	0.000	0.000	0.000	0.000	0.000	0.000
Repair of BWDB Offices	0.000	0.000	0.050	0.050	0.067	0.000	0.000	0.000	0.000	0.000	0.000
<b>Farmer Canal System</b>											
New low-lift pumps with electric motors	0.000	0.089	0.266	0.355	0.178	0.000	0.000	0.000	0.000	0.000	0.000
Buried uPVC pipe system	0.000	1.036	3.109	4.145	2.072	0.000	0.000	0.000	0.000	0.000	0.000
Prepaid meter system	0.000	0.074	0.222	0.297	0.148	0.000	0.000	0.000	0.000	0.000	0.000
Pilot solar panels and pumps	0.000	0.016	0.047	0.063	0.031	0.000	0.000	0.000	0.000	0.000	0.000
<b>Subtotal</b>	<b>0.000</b>	<b>1.215</b>	<b>3.645</b>	<b>4.859</b>	<b>2.430</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
Upgrading of Electricity Distribution System	0.000	0.000	0.910	0.910	1.213	0.000	0.000	0.000	0.000	0.000	0.000
<b>Subtotal</b>	<b>0.909</b>	<b>3.943</b>	<b>7.351</b>	<b>9.239</b>	<b>5.568</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
<b>Annual operation and maintenance</b>											
Level 1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Level 2	0.000	0.388	0.388	0.388	0.388	0.388	0.388	0.388	0.388	0.388	0.388
Level 3	0.030	0.114	0.338	0.657	0.898	0.898	0.898	0.898	0.898	0.898	0.898
Independent Management Operator Establishment	1.345	1.660	1.507	1.310	1.319	1.319	1.319	1.319	1.319	1.319	1.319
<b>Total</b>	<b>1.375</b>	<b>2.163</b>	<b>2.233</b>	<b>2.355</b>	<b>2.605</b>	<b>2.605</b>	<b>2.605</b>	<b>2.605</b>	<b>2.605</b>	<b>2.605</b>	<b>2.605</b>
<b>Program Overhead Costs (%)</b>	20.0	0.511	0.540	0.266	0.176	0.151	0.000	0.000	0.000	0.000	0.000
<b>Total</b>	<b>2.795</b>	<b>6.645</b>	<b>9.850</b>	<b>11.771</b>	<b>8.325</b>	<b>2.605</b>	<b>2.605</b>	<b>2.605</b>	<b>2.605</b>	<b>2.605</b>	<b>2.605</b>
<b>Net Cash Flow</b>	<b>(2.795)</b>	<b>(6.677)</b>	<b>(9.245)</b>	<b>(8.426)</b>	<b>(0.637)</b>	<b>8.906</b>	<b>8.906</b>	<b>8.906</b>	<b>8.906</b>	<b>8.906</b>	<b>8.906</b>
<b>EIRR (%) - 30 years</b>	<b>20.9</b>										

Table 3.21: Incremental Agricultural Labor Generated

	Days per ha			With Project		Without Project		Total Increase (days)
	With	Without	Increase	(ha)	(days)	(ha)	(days)	
<b>Farm (0.2 ha)</b>								
Paddy - HYV Boro (Rabi)	55	30	25	14,365	790,075	8,306	249,165	540,910
Paddy - HYV Aman (Kharif II)	50	30	20	13,260	663,000	9,860	295,800	367,200
Potato (Rabi)	70		70	1,700	119,000	0	0	119,000
Vegetables (Kharif I)	20		20	2,006	40,120	34	0	40,120
Pulses (Rabi)			0	85	0	11	0	0
								1,067,230
<b>Farm (1.0 ha)</b>								
Paddy - HYV Boro (Rabi)	60	45	15	14,365	861,900	8,306	373,748	488,153
Paddy - HYV Aman (Kharif II)	60	50	10	13,260	795,600	9,860	493,000	302,600
Potato (Rabi)	100		100	1,700	170,000	0	0	170,000
Vegetables (Kharif I)	60	60	0	2,006	120,360	34	2,040	118,320
Pulses (Rabi)	10	5	5	85	850	11	57	794
								1,079,866
<b>Total Days per Year - Weighted<sup>a</sup></b>				<b>1,068,494</b>				
<b>Value</b>								
Agricultural wage rate (BDT per day)					300.00			
Total Value (BDT million)					<b>320.55</b>			

a. Weighted according to the distribution of farms in the project area.

Source: IMIIP PPTA consultants' estimates