APPENDIX

FORMULAS FOR CALCULATION OF COSTS, BENEFITS, AND COST-EFFECTIVENESS OF PRICE-SUBSIDY POLICY INSTRUMENTS

- 1. Change in Labor Quantity
 - = (Base-line Labor Use or Labor Use in Pre-Subsidy Period)
 - * (% Change in Labor Use by Effect of Alternative Policy)
- 2. Change in Labor Expenditure
 - = (Change in Labor Quantity)
 - * (90% of Base-line Labor Price)
- 3. Change in Fertilizer Quantity
 - = (Base-line Fertilizer Use)
 - * (% Change in Labor Use by Effect of Alternative Policy)
- 4. Change in Fertilizer Expenditure
 - = (Change in Fertilizer Quantity)
 - * (90% of Base-line Fertilizer Price)
- 5. Change in Total Cost (AC)
 - = (Change in Labor Expenditure)
 - + (Change in Fertilizer Expenditure)
- 6. Change in Output
- = (Base-line Output)
- * (% Change in Output Supply by Effect of Alternative Policy)
- 7. Change in Revenue (AR)
 - = (Change in Output)
 - * (Post-Subsidy Output Price)

- 8. Saving on Pre-Subsidy Input (A)
 - = (Base-line Input Use)
 - * (10% of Base-line Input Price)

For Each Price-Subsidy Instruments:

- (1) For Labor
 - = (Base-line Labor Use)
 - * (10% of Base-line Labor Price)
- (2) For fertilizer
 - = (Base-line Fertilizer Use)
 - * (10% of Base-line Fertilizer Price)
- (3) Non Available

$$(4) = (1) + (2)$$

$$(5) = (1) + (3)$$

$$(6) = (2) + (3)$$

$$(7) = (1) + (2) + (3)$$

- 9. Gains on Pre-Subsidy Output (B)
 - = (Base-line Output)
 - * (10% of Base-line Output Price)
- 10. Total Benefit (TB)

$$= \Delta R + A + B$$

11. Net Benefit to Farmers (NB)

12. Government Subsidy:

- (1) For 10% of Labor Price
 - = (Base-line Labor Use + Change in Labor Quantity)
 - * (10% of Labor Price)
- (2) For 10% of Fertilizer Price
 - = (Base-line Fertilizer Use + Change in Fertilizer Quantity)
 - * (10% of Fertilizer Price)
- (3) For 10% of Output Price
 - = (Base-line Output Supply + Change in Output)
 - * (10% of Output Price)

$$(4) = (1) + (2)$$

$$(5) = (1) + (3)$$

$$(6) = (2) + (3)$$

$$(7) = (1) + (2) + (3)$$

- 13. Net Impact of Policy or Net Benefit to the Country
 - = (Net Benefit to Farmers) (Government Subsidy)
- 14. Cost-Effectiveness (%)
 - = (Net Impact of Policy / Government Subsidy) * 100

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