

NATIONAL BANK FOR AGRICULTURE AND RURAL DEVELOPMENT  
 S.C.O.No.179-180, SECTOR 17-C, P.B.No.35  
CHANDIGARH - 160017

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 CHANDIGARH

NB (CHG) ICD/LDB

2717

/PJB-667/92-93

17 FEBRUARY 1993

The Managing Director  
 Haryana State Cooperative  
 Land Development Bank  
 SCO No. 1016 & 1034  
 Sector 22-B /  
CHANDIGARH - 160 022

The Managing Director  
 Punjab State Cooperative  
 Agriculture Development Bank  
 Bank Square  
 Sector 17-B  
CHANDIGARH - 160 017

|                      |   |                  |                     |
|----------------------|---|------------------|---------------------|
| Category of Project  | : | NORMAL           | SPLIT NICKLE SCHEME |
| Name of the Scheme   | : |                  |                     |
| No. of Scheme        | : | ICD/LDB/Memo-126 | /PJB-667 /92 - 93   |
| Code No.             | : | 126              |                     |
| Refinance Assistance | : | Rs. 82.294       | lakhs               |

Dear Sir

Please refer to your letter No.Dev/F.86/10877 dated 7.1.93 forwarding the captioned scheme for our consideration. We are pleased to advise that the scheme has our general approval and we are agreeable to subscribe to special development debentures to be floated by your bank under the scheme as per details given hereunder:

|               |  |   |  |
|---------------|--|---|--|
| 12 FEB 93 (S) | Total financial outlay                                     | : | Rs. 105.402 lakhs  |
| 12 FEB 93 (S) | Financial assistance                                       | : | Rs. 86.625 lakhs   |
| 12 FEB 93 (S) | National Bank's share of contribution @ %                  | : | Rs. 82.294 lakhs   |
| iv)           | Government of India/State Govt. share @ %                  | : | Rs. 4.331 lakhs  |
| v)            | Rate of interest on loans                                  | : | For Small Farmers* % p.a @<br>For other farmers* % p.a @   |
| vi)           | Rate of interest on debentures subscribed by National Bank | : | For small farmers % p.a @<br>For other/farmers % p.a @<br>upto Rs. 25000 - 6.5%<br>25001 to 2 lakh 10.5% |
| vii)          | Repayment period of loan by beneficiary to the bank        | : | 10 years including one years/months of grace   |

2. The sanction is subject to the terms and conditions contained in the Schedules I and III enclosed (special terms and conditions and physical and financial programme) as also the agreement date \_\_\_\_\_ executed by your bank in favour of National Bank.

The general terms and conditions as sent to you with our circular letter No. POD.II.POP/5679/16/87-88 dt. 28.4.88 shall also form a part of this sanction.

@ As defined vide our Head Office circular dated 26.9.90 and 12.11.90

7.5.92

13  
26/2/93

3. The Project Agreement and loan Agreement No.2653 IN dated 28 May 1986 in regard to NABARD Credit Project No.I shall form the basis for sanction of refinance to the scheme in question and the various provisions of those agreements as are relevant and applicable to sanction of refinance by the National Bank to the participating banks as defined in the above referred agreement have to be observed and followed by your bank and all those terms and conditions shall be deemed to form part of this sanction letter.

4. Refinance will not be admissible to the bank against loans recovered or fallen due at the time of release of refinance by National Bank.

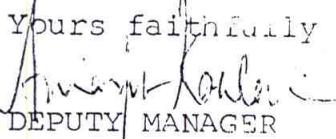
5. Application for floatation of special development debentures shall be made by the banks in the form prescribed by the N.B?

6. This sanction will become effective only after receipt of

- a) Bank's application in the prescribed proforma duly recommended by the Registrar of Cooperative Societies.
- b) Banks Confirmation in writing that the terms and conditions of this sanction are acceptable to your bank.
- c) State Govt.'s recommendation on the implementation of the scheme and their acceptance of the terms and conditions in so far as they relate to their obligations under the scheme.
- d) Trustees' approval and State Govt. Guarantee for payment of interest and repayment of principal instalments on due dates.

7. Please acknowledge receipt of this sanction letter and intimate to us the action proposed to be taken on various conditions given in the schedules annexed.

Yours faithfully

  
DEPUTY MANAGER

Encls: As above( )

Endst.No.NB(CHG) ICD/LDB/ / 17/6/86 - 9 of date

Copy forwarded for information and necessary action to the:-

1. Financial/Development Commissioner & Secretary to Govt. of Punjab/Haryana, Deptt. of Agriculture/Cooperation, Civil Secretariat, Chandigarh-160 001. Government may communicate to National Bank their acceptance of the terms and conditions in so far as they relate to their obligations under the scheme. State Govt. may also make available necessary guidance/assistance from the concerned departments for successful implementation of the programme.
2. Registrar of Cooperative Societies, Govt. of Punjab/Haryana Sector 17, Chandigarh - 160017.
3. Director of Agriculture/Animal Husbandry Department, Govt. of Punjab/Haryana, Sector , Chandigarh.
- 4.

37

SCHEDULE-III

Name of the Bank

: Punjab State Coop. Agri. Dev. Bank Ltd.

Name of the Scheme and  
Operational Area

Financing of sprinkler sets throughout  
the state i.e. in all the blocks

Number of the Scheme

: NB.POD.II/ 126

/PJB-192 -93  
667

Break-up/Details of unit costs approved  
(indicate ranges of minimum and  
maximum unit cost as also average unit cost)

please see annexure VII(a) & (b)

| Physical & Financial Programme |                         |                 |                               |                                  |   | NB Refi<br>nance |
|--------------------------------|-------------------------|-----------------|-------------------------------|----------------------------------|---|------------------|
| Year<br>(April-<br>March)      | Nature of<br>investment | No. of<br>units | Avg.<br>unit<br>cost<br>(Rs.) | Total<br>finan-<br>cial<br>O/lay | Margin/<br>subsidy<br>Bank<br>loan<br>@ _____ % | %                |
|                                |                         |                 |                               |                                  |   |                  |

please see annexure I and II

### Scheme Implementation Schedule

The disbursement of loans as also drawal of refinance under the Scheme shall be completed before 31 March 1993

### Special conditions

1. Sprinkler sets may be financed in the area/pockets which do not have paddy as a dominating crop.
2. Only EIG marked equipment to be financed.
3. After sale service of the equipment to be guaranteed by supplier.

ANNEXURE-I

physical and Financial programme of Sprinkler Sets

(Rs. lakhs)

| Sr.<br>No. | Size of the model | No. of<br>sets | Unit Cost | Fin.<br>Out. | Margin 4&5<br>acres @ 25%<br>& 10% | Bank<br>loan<br>@ 9.5% | NB refi.<br>Govt. share | State/Central<br>Govt. share |
|------------|-------------------|----------------|-----------|--------------|------------------------------------|------------------------|-------------------------|------------------------------|
| —          | —                 | —              | —         | —            | —                                  | —                      | —                       | —                            |
| 1.         | 4 acre            | 128            | 0.204     | 26.112       | 6.528                              | 19.584                 | 18.605                  | 0.979                        |
| 2.         | 5 acre            | 128            | 0.225     | 28.80        | 7.200                              | 21.600                 | 20.52                   | 1.080                        |
| 3.         | 10 acre           | 165            | 0.306     | 50.49        | 5.049                              | 45.441                 | 43.169                  | 2.272                        |
| —          | —                 | 421            | 105.402   | 18.777       | 86.625                             | 82.294                 | 4.331                   | —                            |
| —          | —                 | —              | —         | —            | —                                  | —                      | —                       | —                            |



| Rate   | Quantity              | Unit Cost (Rs.) | Total Cost (Rs.)          |
|--|-----------------------|-----------------|---------------------------|
| Rs. 1.25/- per meter   | 1.00                  | 1.25            | 1.25                      |
| 2. Side tee at main dia  | 2 Nos.                | 2.50            | 5.00                      |
| 3. Internal piping   | 75 mm dia at main dia | 67.92           | 110 m<br>225 m<br>7475.20 |
| 4. 75 mm dia couplers for main   | 169.55                | 12 Nos.         | 169.55                    |
| 5. 75 mm dia sprinkler couplers  | 212.95                | 6 Nos.          | 38 Nos.<br>3221.45        |
| 6. Sprinklers with nozzle  | 330.45                | 6 Nos.          | 1277.76                   |
| 7. Side Tee of 75 mm dia   | 359.93                | 1 No            | 359.93                    |
| 8. Bend 90° cf 75 mm dia   | 291.28                | 1 No            | 291.28                    |
| 9. Riser Pipe of 90 mm length  | 45.43                 | 6 Nos.          | 272.58                    |
| 10. Batten or foot   | 33.03                 | 6 Nos.          | 198.18                    |
| 11. End stop/ring cf 75 mm dia   | 89.76                 | 2 Nos.          | 179.52                    |
| 12. Screwed coupling   | 156.50                | 1 No.           | 156.50                    |
| Total  |                       |                 | 15051.17                  |
| add taxes @ 6.3%   |                       |                 | 26443.35                  |
| Total.   |                       |                 | 1324.50                   |
| <i>Average cost of aluminum based sprinkler system for respective farm size (<math>\frac{A}{h} + B/2</math>)</i> |                       |                 |                           |
| Rs. 22573.01   |                       |                 | 16375.67                  |
| Say  |                       |                 | 28770.36                  |
| Rs. 22600/-  |                       |                 | 17495.65                  |
|  |                       |                 | 32180.06                  |
|  |                       |                 | 363                       |
| Rs. 24800/-  |                       |                 |                           |

Cost of Aluminin based  
soil stabilizer system for various sizes

- 18 - ANNEXURE - VII (b)

| Rate<br>(Rs.)   | 7.5 acre (4 ha)<br>Field | 7.5 acre (4 ha)<br>Soil Stabilizer<br>System | 10 Acre (4 ha)<br>Field                     | 10 Acre (4 ha)<br>Soil Stabilizer<br>System |
|---|--------------------------|--|---|---|
| 1. 75 mtr. 25 mm<br>Soil stabilizer<br>67.52                | 134 M<br>325 R           | 65 M<br>325 R                                | 146 M<br>357 R                              | 111.52<br>247.44                            |
| 2. 75 mtr. 12 cm<br>Soil stabilizer<br>165.55               | 22 Nos.                  | 34 Nos.                                      | 3730.10<br>9155.70                          | 24 Nos.<br>50 Nos. 4062.20<br>15003.45      |
| 3. 75 mtr. 6 cm<br>Soil stabilizer<br>212.36                | 10 Nos.                  | 10 Nos.                                      | 2129.60<br>3204.50                          | 10 Nos. 2129.60<br>2129.60                  |
| 4. 10 mtr. 6 cm<br>Soil stabilizer<br>350.23                | 10 Nos.                  | 10 Nos.                                      | 3304.50<br>355.93                           | 10 Nos. 3304.50<br>3304.50                  |
| 5. 10 mtr. 75 mtr.<br>Soil stabilizer<br>45.43              | 1 No                     | 1 No   | 291.28<br>454.30                            | 1 No<br>1 No<br>291.28                      |
| 6. 14 mtr. 75 mtr.<br>Soil stabilizer<br>35.03              | 10 Nos.                  | 10 Nos.                                      | 320.30<br>454.30                            | 10 Nos.<br>454.30<br>359.93                 |
| 7. 16 mtr. 75 mtr.<br>Soil stabilizer<br>156.50             | 2 Nos.                   | 2 Nos.                                       | 170.52<br>156.50                            | 2 Nos.<br>170.52<br>291.28                  |
| Total<br>Soil stabilizer<br>System                          | 19677.38<br>Total 1      | 38435.63<br>1731.61<br>21408.99<br>22664.69  | 20831.52<br>3362.34<br>41817.97<br>45105.22 | 41456.82<br>1653.17<br>3648.20<br>45105.22  |
| 1. Average cost of<br>Soil stabilizer<br>per size (A & B/2) | Rs. 31613.48             | Rs. 33884.86                                 | Rs. 33900/-                                 |   |

36

Blockwise / model wise Physical programme

| S.No. | District/Block  | Annexure II | Model/No   |                 |                 |
|-------|-----------------|-------------|--|-----------------|-----------------|
|       |                 |             | 4 Acre   | 5 Acre          | 10 Acre         |
| 1     | 2               | 3           | 4  | 5               | 6               |
| 1.    | Amritsar        | 15          | 15 (one set per block)                                   | Nil             | Nil             |
| 2.    | Jalandhar       | 12          | 12 (" )  | Nil             | Nil             |
| 3.    | Kapurthala      | 4           | 4  | "               | -               |
| 4.    | Ludhiana        | 10          | 10   | "               | -               |
| 5.    | Sangrur         | 10          | 10   | "               | -               |
| 6.    | Hoshiarpur      | 11          | 1  | "               | 2 set per block |
| 7.    | Ropar           | 6           | -do-   | -do-            | -do-            |
| 8.    | Gurdaspur       | 13          | 1  | "               | 1 set per block |
| 9.    | Patiala         | 7           | 2  | "               | -               |
|       |                 |             | in Bassi Pathana, Bhuer Heri,<br>Ghaur, Babha, & Patiala |                 |                 |
|       | Rajpura         | 10          | 4  | 4               | 2               |
|       | Derabassi       | 10          | 4  | 4               | 2               |
| 10.   | Faridkot        | 12          | 2 set per block  | 2 set per block | 2 set per block |
| 11.   | Ferozepur       | 9           | 2 " 2  | 2 "             | 2 "             |
| 12.   | Bhatinda        | 6           | 1 "  | 2 "             | 2 "             |
| 13.   | Mansa           | 3           | nil  | 1 "             | 1 "             |
| 14.   | Fatehgarh Saheb | 10          | 2 "  | 2 "             | 1 "             |
|       |                 |             | 128  | 128             | 61              |

**ANNEXURE - VII (q)**  
**Cost estimate of HDPE based Sprinkler Irrigation System for various Farm Models**

| Sr. No. | Item  | Rate<br>(Rs.) | 7.5 Acre (3 Ha) Farm                   |                | 10 Acre (4 Ha) Farm |                            |
|---------|---|---------------|--|----------------|---------------------|----------------------------|
|         |   |               | Quantity of material<br>Well at Centre | Unit Cost(Rs.) | Unit Cost(Rs.)      | Qty. of material<br>Centre |
| 1.      | 2.  | 3.            | 4.                                     | 5.             | 6.                  | 7.                         |
| 1.      | 75 mm dia ISI marked HDPE main and lateral pipeline 2.5 Kg/cm <sup>2</sup> with Coupler | 485.31        | 134 m (80.89/ rmt)                     | 325 m          | 10839.26            | 26289.25                   |
| 2.      | 75 mm dia ISI marked 3m long HDPE pipe 2.5 Kg/cm <sup>2</sup> with Coupler              | 276.07        | 1 No                                   | 276.07         | 276.07              | 1 No                       |
| 3.      | 75 mm dia pump connecting nipple  | 185.68        | 1 No                                   | 1 No           | 185.68              | 185.68                     |
| 4.      | 75 mm dia 90° HDPE Bend duly coupled  | 245.58        | 1 No                                   | 1 No           | 245.58              | 245.58                     |
| 5.      | 75 mm dia HDPE Tee duly coupled   | 323.94        | 1 No                                   | 1 No           | 323.94              | 323.94                     |
| 6.      | HDPE sprinkler attachment size 75 mm dia  | 262.79        | 10 Nos.                                | 10 Nos         | 2627.90             | 2627.90                    |
| 7.      | HDPE Foot batton  | 34.87         | 10 Nos.                                | 10 Nos.        | 348.70              | 348.70                     |
| 8.      | 3/4" x 3/8" Riser pipe(G.i.)  | 47.64         | 10 Nos.                                | 10 Nos.        | 476.40              | 476.40                     |
| 9.      | Sprinkler Nozzle model LF3 5.5563 mm x 3.175 mm   | 316.82        | 10 Nos.                                | 10 Nos.        | 3168.20             | 3168.20                    |
| 10.     | HDPE end plug duly coupled size 75 mm dia   | 76.86         | 2 Nos.                                 | 2 Nos.         | 153.72              | 153.72                     |
|         | Total   |               |  |                |                     |                            |
|         | Add Taxes @ 8.8%  |               |  |                |                     |                            |
|         | Total   |               |  |                |                     |                            |
|         | Average Cost of HDPE based sprinkler system for respective farm size (A+B/2) Say        |               |  |                |                     |                            |
|         |   | Rs. 28691.05  |  |                | Rs. 30627.23        |                            |
|         |   | Rs. 28700/-   |  |                | Rs. 30671/-         |                            |
|         |   |               |  |                | 21342.35            | 39917.10                   |
|         |   |               |  |                | 1726.22             | 3228.18                    |
|         |   |               |  |                | 19616.13            | 36633.92                   |
|         |   |               |  |                | 1641.00             | 3000.00                    |
|         |   |               |  |                | 20286.25            | 37095.14                   |

ANNEXURE - VII (A)  
 Cost estimate of HDPE based Sprinkler Irrigation System for  
 Various Farm Models

| Sr. No. | Item  | 4 Acre (1.6 Ha) Farm |                      |                 | 5 Acre (2.0 Ha) Farm      |                            |  |
|---------|---|----------------------|----------------------|-----------------|---------------------------|----------------------------|--|
|         |   | Rate (Rs.)           | Quantity of material | Unit Cost (Rs.) | Quantity of material      | Unit Cost                  |  |
| 1.      | 2. Well at Centre   | Centre               | Well at Centre       | Corner          | Corner                    | Corner                     |  |
| 2.      | 3. Corner   | Corner               | Centre               | Corner          | Corner                    | Corner                     |  |
| 3.      | 4. 75 mm dia ISI marked HDPE main and laterals pipeline 2.5 Kg/cm <sup>2</sup> with Coupler   | 485.31 (80.89/rmt)   | 110 m                | 225 m           | 3897.90                   | 18200.25                   | 116 m 252 m 9383.24 20384.28                         |
| 4.      | 5. 75 mm dia ISI marked 3 m long 276.07 HDPE pipe 2.5 Kg/m <sup>2</sup> with coupler  | 185.68               | 1 Nos.               | 1 Nos.          | 276.07                    | 276.07                     | 1 Nos. 1 Nos. 276.07 276.07                          |
| 5.      | 6. 75 mm dia pump connecting nipple   | 185.68               | 1 Nos.               | 1 Nos.          | 185.68                    | 185.68                     | 1 Nos. 185.68 185.68                                 |
| 6.      | 7. 75 mm dia 90° Bend duly coupled  | 245.58               | 1 Nos.               | 1 Nos.          | 245.58                    | 245.58                     | 1 Nos. 245.58 245.58                                 |
| 7.      | 8. 75 mm dia HDPE Tee duly coupled  | 323.94               | 1 Nos.               | 1 Nos.          | 323.94                    | 323.94                     | 1 Nos. 323.94 323.94                                 |
| 8.      | 9. HDPE size 75 mm dia fittings   | 262.79               | 6 Nos.               | 6 Nos.          | 1576.74                   | 1576.74                    | 7 Nos. 7 Nos. 1839.55 1839.55                        |
| 9.      | 10. HDPE foot bottom 3/4" x 3/4" Riser pipe (C.T.) Sprinkler Nozzle size 1/2" L.H. 5.5563 mm x 2.17 mm HDPE end plug duly coupled size 75 mm dia. | 54.87                | 6 Nos.               | 6 Nos.          | 209.22                    | 209.22                     | 7 Nos. 7 Nos. 244.09 244.09                          |
|         |   | 47.64                | 6 Nos.               | 6 Nos.          | 265.64                    | 285.64                     | 7 Nos. 7 Nos. 333.46 333.46                          |
|         |   | 316.82               | 6 Nos.               | 6 Nos.          | 1970.92                   | 1900.92                    | 7 Nos. 7 Nos. 2217.74 2217.74                        |
|         | Total Add Taxes @ 8.5%  |                      | 76.86                | 2 Nos.          | 153.72                    | 153.72                     | 2 Nos. 2 Nos. 153.72 153.72                          |
|         | Average Cost of 1 acre based sprinkler system for respective farm size (A+B/2) Say  |                      |                      |                 | 14055.61 1256.89 15262.50 | 23357.96 20552.50 25415.46 | 15203.07 15237.87 16540.94 26204.11 2305.06 28510.07 |
|         | Rs. Rs.   |                      |                      |                 | 20352.98 20400/-          |                            | Rs. 22525.51 Rs. 22500/-                             |