REPUBLIC OF THE PHILIPPINES

THE FEASIBILITY STUDY

ON

THE IMPROVEMENT OF OPERATION AND MAINTENANCE

IN

PUMPING IRRIGATION SYSTEMS

ANNEXES

võlume II

ANNEX-LE OPERATION AND MAINTENANCE MANUAL FOR THE LIBMANAN-CABUSAO PUMP IRRIGATION SYSTEM

o January, 1989

JAPAN INTERNATIONAL COOPERATION AGENCY.



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VOLUME II

ANNEX-I OPERATION AND MAINTENANCE MANUAL FOR THE LIBMANAN-CABUSAO PUMP IRRIGATION SYSTEM

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JAPAN INTERNATIONAL COOPERATION AGENCY

THE FEASIBILITY STUDY ON THE IMPROVEMENT OF OPERATION AND MAINTENANCE IN PUMPING IRRIGATION SYSTEMS

LIST OF REPORTS

Main Text

Annexes

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A: Selection of the High Priority Projects

B: Meteorology and Hydrology

C: Irrigation and Drainage

D: Agriculture and Agro-Economy

E: System Management

F: Project Cost and Implementation Schedule for

the Pump Systems

G: Project Evaluation

H: Mini-Hydropower Development

Volume II

I: Operation and Maintenance Manual for the Libmanan-Cabusao Pump Irrigation System



ANNEX-I

OPERATION AND MAINTENANCE MANUAL FOR THE LIBMANAN-CABUSAO PUMP IRRIGATION SYSTEM

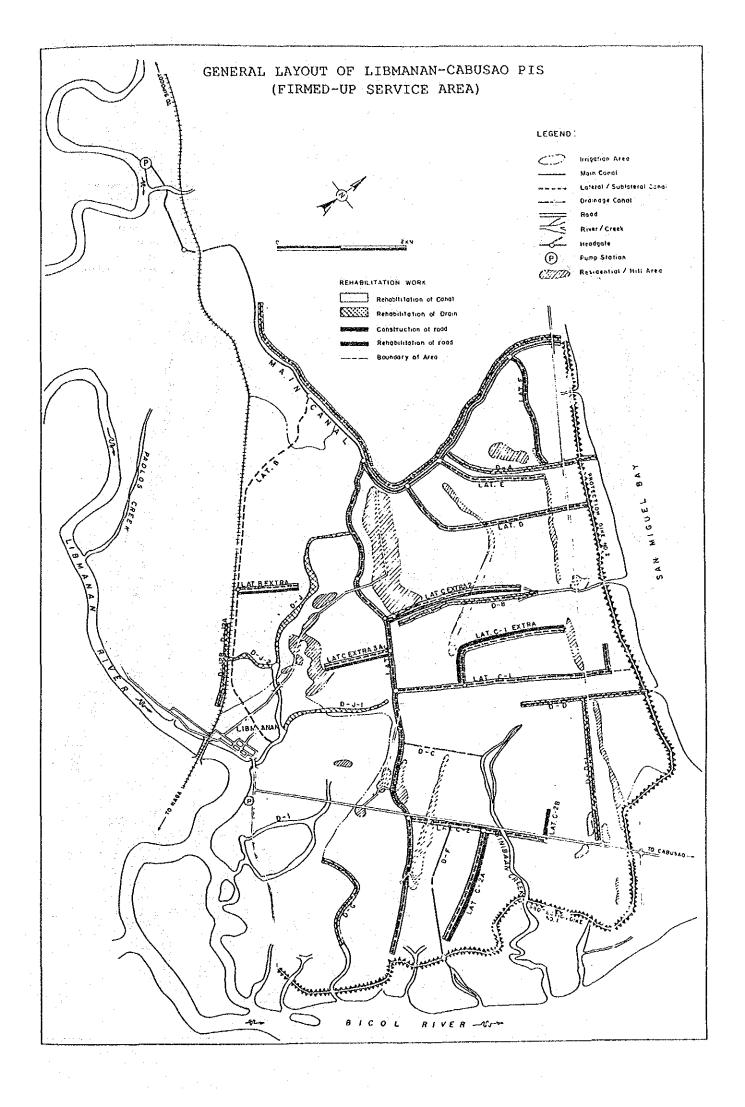
PREFACE

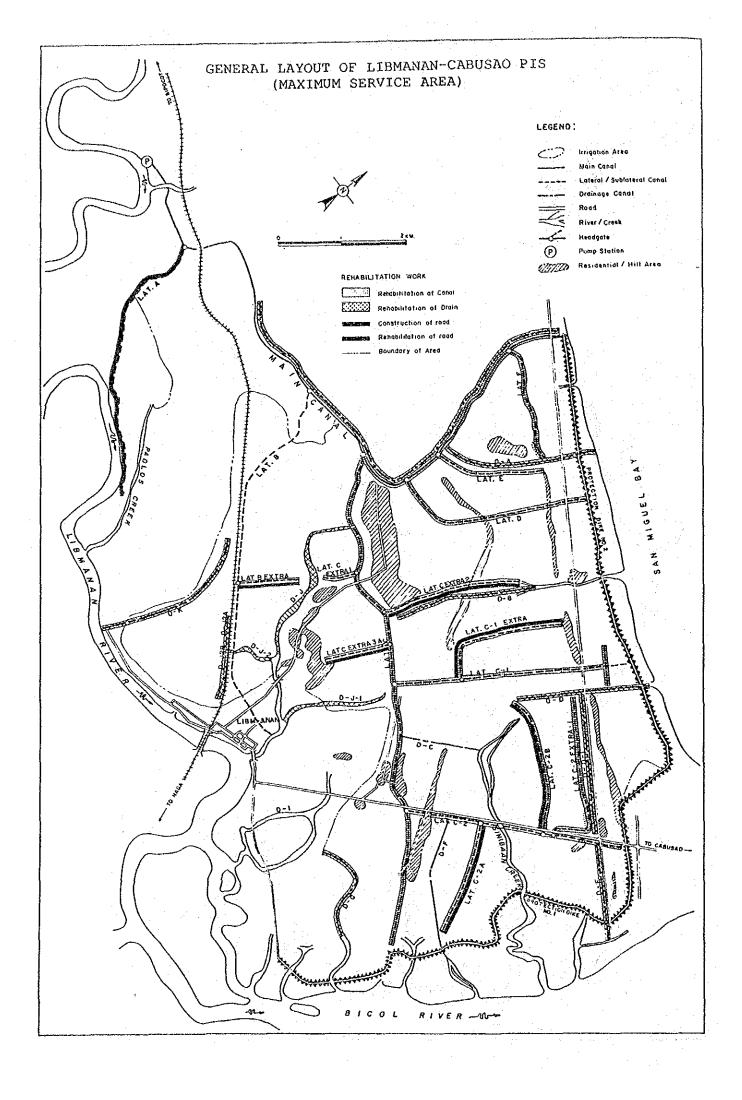
This paper is prepared for practical approach on the operation and maintenance of irrigation and drainage facilities in the firmed-up service area (1,838 ha) of the Libmanan-Cabusao Pump Irrigation System as an interim measure for a more sophisticated operation and maintenance in future. The O&M procedures provided herein should be revised periodically on the basis of accumulated experience.

The operation rules are established for a rotational irrigation at system level with the specially introduced method which is proposed in the feasibility study on the improvement of operation and maintenance in pumping irrigation systems by JICA.

The O&M manual consists of two parts. The Part-I describes rules for all the irrigation systems covering from the pump to terminal irrigation facilities as well as the drainage system. The Part-II states especially about rules for on-farm irrigation and drainage systems in a rotation area.

Appendix-1 is a guideline on technical practices needed for proper distribution of irrigation water. Appendix-2 describes modified articles to be applied in case the maximum service area (3,085 ha) will be used instead of the firmed-up service area (1,838 ha).





ANNEX - I

OPERATION AND MAINTENANCE MANUAL FOR THE LIBMANAN-CABUSAO PUMP IRRIGATION SYSTEM

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DEFINITIONS

Gross field requirement

Gross water requirement at a turnout including on-farm irrigation losses. It is also called as Turnout water requirement.

Headgate

A diversion structure related to main canal or lateral canal to divert irrigation water from main to lateral or from lateral to sublateral. It is located at the head of main or lateral or sublateral canal.

Irrigation block

A unit of a rotational distribution of water. An irrigation block consists of several rotation areas. In an irrigation block, water distribution is made in the same schedule.

Main facilities

Irrigation facilities from the pump station to turnouts. They are composed of the pump station, the main canal, lateral & sublateral canals, and their related structures such as checks, headgates, turnouts and etc. As for drainage facilities, the main facilities are main drains, lateral drains and their related structures. The operation and maintenance of the main facilities are executed by the system office.

Normal irrigation

Irrigation to be executed after transplanting until full drainage at 2 weeks before harvest.

On-farm facilities

Irrigation facilities such as farm ditches and their related structures in a rotation area commanded by a turnout. The turnout is not included in the on-farm facilities. As for drainage facilities, on-farm ones are farm drains and their related structures. The operation and maintenance of the on-farm facilities are executed by farmers.

Rotation area

An on-farm irrigation block commanded by a turnout. In a rotation area, all the operation and maintenance works are conducted by farmers on their own responsibilities.

Rotation block

An irrigation block in which water distribution is rotationally executed in the same period. A rotation block is composed of one or several irrigation blocks. The composition of a rotation block is changed depending upon the irrigation stages such as land soaking, land preparation and normal irrigation.

Turnout

A diversion structure related to main canal or lateral or sublateral canal to divert irrigation water to a rotation area.

PART - 1 MANUAL FOR OPERATION AND MAINTENANCE OF IRRIGATION AND DRAINAGE SYSTEMS

CHAPTER - 1 GENERAL PROVISIONS

Article - 1 These provisions provided hereunder shall be applied for operation and maintenance of irrigation and drainage facilities in the Libmanan-Cabusao Pump Irrigation System.

Irrigation and drainage facilities for operation and maintenance

Irrigation Facilities	Number
Pumps	4 nos.
Main canal	1 no.
Lateral canals (Lat.B, Lat.C, Lat.D, Lat.E, Lat.F)	5 nos.
Sublateral canals (Lat.B-Ext., Lat.C-Ext.1, Lat.C-Ext.2, Lat.C-Ext.3, Lat.C-1, Lat.C-2, Lat.C-1-Ext Lat.C-2A, Lat.C-2B)	9 nos.
Canal related structures	280 nos.
Drainage Facilities	Number
Main drains (D-A, D-B, D-C, D-D, D-E, D-F, D-G, D-H, D-I, D-J, D-K)	11 nos.
Lateral drains (D-D-1, D-J-1, D-J-2)	3 nos.
Canal related structures	140 nos.

Article - 2 The operation and maintenance of irrigation and drainage facilities is:

Purpose

- To distribute irrigation water properly and increase irrigation benefit from the system with rehabilitated improvement facilities,
- (2) To increase irrigation efficiency and minimize pump operation cost.
- Article 3 The rotational distribution method of irrigation water at system level shall be applied under the discontinuous pump operation.

Distribution method of irrigation water

The irrigation plans such as annual Irrigation plan Article - 4 irrigation plan and seasonal irrigation and water plan shall be prepared in accordance distribution with the exemples pattern and calendar schedule with the cropping pattern and calendar which shall be approved by the municipal agriculture offices in Libmanan and Cabusao. The irrigation plans and water distribution schedule shall be announced to farmers by the system office at least one week before the scheduled date of starting irrigation.

distribution schedule

Suspension and resumption of irrigation Article - 5 at the certain depth of rainfall shall be executed in accordance with the irrigation suspension schedule to be prepared based upon the daily rainfall observation record. The irrigation suspension schedule shall be announced occasionally to farmers by the system office.

Irrigation suspension schedule

CHAPTER - 2 ORGANIZATION

Article - 6 The Libmanan-Cabusao Pump Irrigation
System Office shall be responsible for operation of the system. The organization chart of the system is shown in Fig. I.1.

Organization responsible for system

Article - 7 The O&M Section in the System Office shall be in charge of operation and maintenance for facilities such as pumps, main and lateral & sublateral irrigation canals, main and lateral drains, and their related structures.

Organization responsible for main facilities

- (1) Superintendent shall check and approve all the operation and maintenance activities to be executed by the staffs, namely 2 watermasters, 1 pump operators and 9 ditchtenders, of the O&M Section.
- (2) The watermasters shall perform the following works.
 - Preparation of cropping pattern and calendar.
 - Preparation of annual irrigation plan and seasonal irrigation plan.
 - Preparation of water distribution schedule.
 - Observation of rainfall.
 - Preparation of irrigation suspension schedule and information to the pump operator and ditchtenders.
 - Analysis of all the data about paddy cropping, harvest and irrigation condition reported by ditchtenders.
 - Preparation of maintenance and repair plan of facilities in the system.
 - Report to the superintendent of all the operation and maintenance activities.

- (3) The pump operator shall conduct the following works.
 - Pump operation according to the water distribution schedule informed by the watermaster.
 - Discharge measurement at the parshall flume located just downstream point of the pump station.
 - Determination of numbers of pumps to be operated and their operation hours based on the discharge measurement results.
 - Pump operation according to the irrigation suspension schedule informed by the watermaster.
 - Inspection of pump equipments and report to the watermaster of the inspection results.
 - Execution or supervision of maintenance and repair works according to the maintenance and repair plan prepared by the watermaster.
- (4) The ditchtenders shall executed the following works.
 - Information to farmers of the cropping pattern and calendar.
 - Information to farmers of the annual irrigation plan and the seasonal irrigation plan.
 - Information to farmers of the water distribution schedule.
 - Information to farmers of the irrigation suspension schedule.
 - Inspection and record about the paddy cropping, harvest and irrigation condition. The data shall be reported to the watermaster.
 - Inspection and record about maintenance condition of facilities in the system. The inspection results shall be reported to the watermaster.
 - Discharge measurement at diversion points such as headgates and turnouts. The results shall be reflected to gate operation.
 - Instruction of gate operation to persons in charge.

- Execution or supervision of maintenance and repair works according to the maintenance and repair plan prepared by the watermaster.
- Guidance to farmers of on-farm irrigation activities in the rotation areas.
- Article 8
- (1) Farmers in a rotation area shall be responsible for operation and maintenance of irrigation and drainage canals and their related structures in the rotation area under guidance of the O&M Section in the System Office.

Organizatin responsible for on-farm facilities

- (2) For facilities in a rotation area after handed over from the System Office to irrigator's associations or irrigator's group/compact farms, the irrigator's associations or the others shall be responsible for operation and maintenance.
- Article 9 The municipal agriculture offices in Libmanan and Cabusao shall be responsible for agricultural extension services.

Organization responsible for agricultural extension services

Article - 10 The provincial office and the municipal offices which will govern irrigator's associations or irrigator's group/compact farms in rotation areas shall be responsible for mobilization of the irrigator's associations or the others and shall observe the responsibilities for their operation in cooperation with the System Office.

Organization responsible for mobilization of irrigator's associations

Article - 11 The Administrative Section in the System Office shall be in charge of billing of irrigation service fee in cooperation with the O&M Section in the System Office. The O&M Section shall be in charge of distribution of bills and statements of account and of collection of irrigation service fee.

Organization responsible for irrigation service fee collection

Article - 12 The administrative Section in the System Office shall be in charge of administrative works in the System Office.

Organization responsible for administration

Article - 13 (1) Coordination to farmers or irrigator's associations on operation and maintenance matters shall be made by the O&M Section in the System Office.

Coordination among organizations

- (2) Coordination to farmers or irrigator's associations on agricultural extension service shall be made through the municipal agriculture office in Libmanan or Cabusao by the O&M Section in the System Office.
- (3) Coordination to farmers or irrigator's associations on irrigation service fee collection matters shall be made by the O&M Section in the System Office.
- (4) Coordination to the provincial office and the municipal office shall be made by the O&M Section in the System Office.
- (5) Coordination to the regional office shall be made by the superintendent in the System Office.

CHAPTER - 3 OPERATION OF IRRIGATION

Article - 14 (1) Operation of irrigation shall be made based on the distribution schedule of irrigation water. The distribution schedule shall be prepared on the weekly basis.

Water distribution schedule

- (2) A distribution schedule of irrigation water shall consist of the following:
 - a. Required discharge to be pumped up from the Libmanan river and pump operation time.
 - b. Required discharge and operation time of respective head gates and turnout gates in the main canal.
 - c. Required discharge and operation time of respective headgates and turnout gates in lateral & sublateral canals.
 - d. Required discharge to be passed down through respective check gates in the main canal, lateral & sublateral canals and their operation time.
- (3) Method of preparing the distribution schedule of irrigation water is given in Chapter 4.

Article - 15 Operation of pumps shall be made according to the following principles:

Operation of pumps

- (1) Weekly diversion schedule for the pump operation shall be regularly informed to the pump operator by a watermaster at every weekend.
- (2) Starting time of pump operation shall be fixed at 1:00 in the midnight. Stopping time shall be adjusted depending on the daily diversion requirement, but not later than 18:00 in the evening.
- (3) The daily diversion requirement at the pump station shall be confirmed to a pump operator through radio from a watermaster of the O&M Section in the System Office at 11:30 every morning. The diversion discharge shall be adjusted at 12:00 according to the diversion requirement.

- (4) Pump operation shall be made in connection to measurement of diversion discharge with the parshall flume to meet the diversion requirement. The discharge measurement shall be made twice a day at 8:00 and 12:00. The measuring method is shown in Appendix-1.1.
- (5) Discharge control shall be made not only by number of pump units to be operated but also by their operation hours. All units necessary to be operated shall be operated at the capacity simultaneously so that, if for example three units have been started, these three shall be stopped at the same time. Relation among the diversion requirement, the number of pumps to be operated and the pump operation hours is shown in Table I-2.
- (6) In case of suspending water delivery due to effective rainfall, pump operation shall be made in compliance with an occasional order. The occasional order shall be based on the daily suspension schedule as mentioned in Article-18.

Article - 16

(1) The main, lateral & sublateral canals and their related structures shall be operated according to the distribution schedule of irrigation water to be prepared on the basis of weekly rotation at system level.

Operation of main and lateral & sublateral facilities

(2) Three kinds of irrigation practices shall be adopted depending on the irrigation stage. The first is for the land soaking, the second is for the land preparation and the third is for the normal irrigation after transplanting. The irrigation blocks for each irrigation practice shall be established as follows:

i) For the land soaking stage

```
Block-LS1
                   225,1 ha
Block-LS2
                   237.4 ha
Block-LS3
                   240.6 ha
Block-LS4
                   223.3 ha
Block-LS5
                   237.8 ha
Block-LS6
                   246.1 ha
Block-LS7
                   231.5 ha
Block-LS8
                   195.8 ha
Total
                 1,837.6 ha
```

ii) For the land preparation stage

Block-LP1	225.1 ha
Block-LP2	237.4 ha
Block-LS3-1	56.1 ha
Block-LS3-2	184.5 ha
Block-LS4-1	83.6 ha
Block-LS4-2	139.7 ha
Block-LS5-1	206.4 ha
Block-LS5-2	31.4 ha
Block-LS6-1	169.9 ha
Block-LS6-2	76.2 ha
Block-LS7-1	110.5 ha
Block-LS7-2	121.0 ha
Block-LS8-1	21.4 ha
Block-LS8-2	174.4 ha
Total	1,837.6 ha
· ·	

iii) For the normal irrigation stage

Irrigation blocks shall be same as those for the land preparation. While, the rotation blocks shall be as follows:

```
Block-A 518.6 ha
Block-B 776.3 ha
Block-C 542.7 ha
Total 1,837.6 ha
```

- (3) Programmed water distribution days for respective irrigation blocks shall be as follows:
 - i) For the land soaking

```
Block-LS1
              1st week (7 days)
              2nd week (7 days)
Block-LS2
              3rd week (7 days)
Block-LS3
Block-LS4
               4th week (7 days)
Block-LS5
               5th week (7 days)
Block-LS6
               6th week (7 days)
              7th week (7 days)
Block-LS7
              8th week (7 days)
Block-LS8
```

ii) For the land preparation

2nd-4th weeks Block-LP1 (21 days) 3rd-4th weeks Block-LP2 (14 days) 5th week (2 days, Mon. Tue.) 4th week (7 days) Block-LP3-1 5th-6th weeks (4 days, Mon. Tue.) 4th week (7 days) Block-LP3-2 5th-6th weeks (6 days, Wed. Thu. Fri.) 5th-7th weeks Block-LP4-1 (9 days, Wed. Thu. Fri.) 5th-7th weeks Block-LP4-2 (6 days, Sat. Sun.) 6th-8th weeks (9 days, Wed. Thu. Fri.) 6th-8th weeks Block-LP5-1 Block-LP5-2 (6 days, Sat. Sun.) 7th-9th weeks Block-LP6-1 (9 days, Wed. Thu. Fri.) Block-LP6-2 7th-9th weeks (6 days, Sat. Sun.) 8th-10th weeks Block-LP7-1 (9 days, Wed. Thu. Fri.) 8th-10th weeks Block-LP7-2 (6 days, Sat. Sun.) 9th-11th weeks Block-LP8-1 (9 days, Wed. Thu. Fri.) 9th-11th weeks Block-LP8-2 (6 days, Sat. Sun.)

iii) For the normal irrigation

After the land preparation and transplanting, the normal irrigation shall be performed rotationally for 13 weeks as follows:

Block-A 2 days per week (Mon. Tue.)
Block-B 3 days per week (Wed. Thu. Fri.)
Block-C 2 days per week (Sat. Sun.)

(4) Operation of checks and headgates shall be made on every ending day of water delivery period, namely on Tuesday, Thursday and Sunday. Taking into account the travelling time of canal flow, the gate operation time is tentatively decided and shown in Table 1-2.

- (5) Gate opening heights of checks, headgates and turnouts shall be fixed at the rates which shall be determined for the respective irrigation stages by reflecting the discharge measurement results to be obtained for various opening heights.
 - (6) Opening the gates of checks, headgates and turnouts shall be inspected by ditchtenders, and the discharges be measured by reading staff gauges once a day between 8:00 and 12:00.
- Article 17 The on-farm facilities in rotation areas shall be operated by farmers or irrigator's associations according to the Part-II "MANUAL FOR OPERATION AND MAINTENANCE OF ON-FARM IRRIGATION AND DRAINAGE SYSTEMS".

Operation of onfarm facilities

Article - 18 (1) During operation, if it rains in a day, or rains continuously for two or more days, the water delivery can be suspended or adjusted. The irrigation water supply shall be temporarily shut down for the next day/days according to the daily suspension schedule depending on

Suspension of water delivery

(2) The daily suspension schedule shall be prepared by a watermaster in the O&M Section in the System Office using the rainfall record at the System Office. The calculation method is shown in Appendix-1.2.

the amount of rainfall.

- (3) The rainfall observation shall be made by a watermaster in the O&M Section at 8:00 every morning and recorded in the attached Form I.1.
- (4) The daily suspension order shall be informed to a pump operator in the pump station by a watermaster in the O&M Section at 11:30 in the morning with radio. The information to farmers or irrigator's associations shall be made by watermasters though ditchtenders between 13:00 and 15:00.

CHAPTER - 4 PREPARATION AND EXECUTION OF WATER DISTRIBUTION SCHEDULE

Article - 19 The programmed cropping pattern and calender in the system is illustrated in cropping. I.2.

Programmed cropping pattern and calender

Article - 20 The programmed planting acreage of paddy in each rotation area in the system are shown in Table I.3.

Programmed acreage of paddy

Article - 21 Gross field requirements, so-called turnout water requirements, in each irrigation stage prepared in accordance with the programmed cropping pattern, calender and planting acreage are shown in Table I.3.

Gross field requirement

Article - 22 Diversion water requirements at the pump station and headgates in each irrigation stage are shown in Table I.4.

Diversion water requirement at pump station and headgates

Article - 23 The programmed water distribution schedule is shown in Table 1.5.

Programmed water distribution schedule

Article - 24 The flow diagram of the system in each irrigation stage prepared based on the programmed water distribution schedule is shown in Fig. 1.3.

Programmed flow diagram

Article - 25 (1) After irrigation is started, the actual cropping calendar and acreage of paddy planted to land in each rotation area shall be surveyed weekly. If the actual ones will be different from the proposed, the proposed cropping calendar and planting acreage shall be updated after all the transplanting will be finished and the acreage be fixed.

Updating cropping calendar and planting acreage

(2) The programmed water distribution schedule shall be modified based on the updated cropping calendar and planting acreage.

Updating water distribution schedule Article - 26 The water requirement at a turnout commanding a rotation area, namely gross field requirement so-called turnout water requirement, shall be calculated as follows:

Calculation of gross field requirement

$$\begin{pmatrix} Gross \\ field \\ requirement \end{pmatrix} = \begin{pmatrix} Unit gross \\ field \\ requirement \end{pmatrix} \times \begin{pmatrix} Acreage of \\ a rotation \\ area \end{pmatrix}$$

Unit gross field requirements in respective irrigation stages are shown in Table I.6.

Article - 27 The diversion water requirements at the pump station and headgates, so-called headgate water requirements, shall be calculated as follows:

Calculation of diversion water requirements at pump station and headgates

Calculation formulas for diversion water requirements at the pump station and headgates are shown in Table I.7.

Article - 28 The calculation result of required diversion discharges at respective turnouts and headgates mentioned in Article-26 and -27 shall be compiled into the water distribution schedule consisting of Tables I.3, I.4, I.5.

Preparation of water distribution schedule

Article - 29 The water distribution schedule shall be shown in the flow diagram such as Fig. I.3.

Preparation of flow diagram

Article - 30 The daily suspension schedule of water delivery shall be prepared at every certain rainfall. The suspension days of irrigation water supply to each irrigation block varies depending on the water supply to the block for the week having been finished or not at the time when effective rainfall is obtained. The calculation shall be made using Form I.2. The calculation method is shown in Appendix-1.2.

Preparation of daily suspension schedule of water delivery Article - 31 (1) A watermaster in the O&M Section of the System Office shall be responsible for updating cropping calendar and planting acreage of paddy mentioned in Article-25(1).

(2) A watermaster in the O&M Section shall be responsible for updating water distribution schedule mentioned in Article-25(2).

- (3) Leaders of farmers or irrigator's associations shall be responsible to survey the actual planting acreage of paddy in their respective rotation areas.
- (4) A watermaster in the O&M Section shall be responsible for preparation of the daily suspension schedule of water delivery.
- Article 32 (1) The starting date of water distribution shall be decided by the System Office.
 - (2) The water distribution schedule shall be announced by the System Office one week before the starting date of water distribution.
 - (3) A sign board shall be erected at all the sites of headgates and turnouts. Items posted on the sign board shall be renewed for next week operation at every week end. The items posted shall be as follows:
 - a. Starting and ending days of water delivery.
 - b. Rotation area or irrigation block/blocks to be irrigated by a turnout or a headgate.
 - c. Planting acreage in the rotation area or irrigation block/blocks.
 - d. Required discharge at the turnout or headgate and gate opening height.
 - e. Gate opening time and day, and gate closing time and day. Form I.3 shall be used.

Organization responsible for preparation of water distribution schedule and daily suspension schedule

Execution of water distribution schedule and daily suspension schedule

- (4) Gate operation shall be executed as follows:
 - a. Gate operation of headgates and checks relating to the headgates operation shall be performed by the ditchtenders in the OGM Section.
 - b. Gate operation of turnouts and checks relating to the turnouts operation shall be conducted by gatekeepers selected from farmers living near the gate sites.
 - c. The gatekeepers shall be selected by farmers and necessary to be accepted by the system office. Subsidy to the gatekeepers shall be born by farmers or irrigator's association.
 - d. Watermasters in the O&M Section shall notify, through ditchtenders, the gatekeepers on delivery of water. The gatekeepers shall operate the gates of turnouts and relating checks according to the water distribution schedule under the guidance of ditchtenders.
 - e. Watermasters in the O&M Section shall notify, through ditchtenders, the gatekeepers on suspension schedule of water delivery. The gatekeepers shall operate the gates of turnouts and relating checks according to the suspension schedule of water delivery.
 - f. Ditchtenders in the O&M Section shall notify leaders of farmers or irrigator's associations in respective rotation areas of the water delivery and suspension.

Article - 33 (1) Ditchtenders shall inspect their respective main, lateral & sublateral canals and related structures. They shall be informed by leaders of farmers or irrigator's associations of the water delivery situation in respective rotation areas. They

wrong.

Inspection and report of water delivery situation

(2) The ditchtenders shall report to watermasters in the O&M Section of the water delivery situation in their respective irrigation blocks. The water masters shall take necessary measures if the situation goes wrong.

shall take necessary measures for the main facilities and advise the necessary measures for the on-farm facilities, if the situation goes

(3) The watermasters shall report to the superintendent in the System Office of the water delivery situation in the whole system.

CHAPTER - 5 OPERATION OF DRAINAGE

Article - 34 Drainage systems in the area are gravity Automatic ones, and so the excess water is drained operation automatically.

Article - 35 Regular inspection shall be made in the following way:

Inspection

- (1) For main and lateral drains, the inspection shall be made by ditch tenders in the O&M Section of the System Office once a week in the wet season and once a month in the dry season.
- (2) In the inspection, special attention shall be paid to flow condition of cross drains.

Article - 36 Any kind of object which obstructs the water flow in drains and their related structures shall be removed immediately after the inspection by the O&M Section.

Clearing of object obstructing drainage flow

CHAPTER - 6 REPAIR AND MAINTENANCE

Repair and maintenance of the following Organization Article - 37 facilities shall be made in either force responsible for account basis or contract basis by the Own Section in the System Office. It means that the O&M Section will entrust private firms or farmers with the repair and maintenance works as occasion demands.

repair and maintenance

- Pumps, main canal, lateral & (1)sublateral canals, and their related structures.
- Main drains, lateral drains, and their related structures.
- The O&M Section shall technically assist Article - 38 farmers or irrigator's associations in the repair and maintenance of on-farm facilities as occasion demands.

Assistance for repair and maintenance of on-farm facilities

Article - 39 Any damage in canal section, which will result in obstruction of irrigation or drainage water flow, shall be repaired on-the-spot immediately by the O&M Section.

On-the-spot repair

Article - 40 Routine maintenance shall mean day-today maintenance of canals and structures to keep them always in workable condition.

Rout ine maintenance

- (1)Floating debris shall be well cleared at inlet of the tunnel, the cut & cover, and the other all structures such as culvert, cross drain, etc. Floating debris at gates of check, headgate and turnout also shall be well cleared.
- (2) The moving part of gate lifting devices shall be well greased.
- (3) Repairing any unexpected damage happened to any small structure shall be conducted as occasion requires.

Article - 41 Regular maintenance shall mean Regular periodical maintenance to be executed with fixed certain interval.

maintenance of canal bank and service road

- Embankment of irrigation and (1)drainage canals shall be maintained and repaired twice a year. The time for maintenance work shall be selected in the month prior to starting each cropping season.
- (2) Grasses on canal inside surface shall be well cleared to keep smooth flow condition. The time for the maintenance work be same as the above: See A. See A
- Silt in the inlet channel and the suction pit of the pump station shall be well cleared. Silt in canals and their related structures such as measuring devices and crossing structures also shall be well cleared. The time for the maintenance work shall be made monthly and additionally as occasion demands.
- Inspection roads shall be (4)maintained after a wet season once a year.

CHAPTER - 7 IRRIGATED AGRICULTURE

Article - 42 The cropping pattern and calendar prepared by the O&M Section in the System Office shall be discussed and approved by the municipal agriculture offices in Libmanan and Cabusao.

Fig. 1.4 "Relation between the System Office and other institutional organizations" shows the relationship of the System Office to the municipal agriculture offices.

Approval of cropping pattern and calendar

Article - 43 The cropping pattern and calendar, after the approval, shall be executed by farmers or irrigator's associations under the guidance of the O&M Section.

Part-II "MANUAL FOR OPERATION AND MAINTENANCE OF ON-FARM IRRIGATION AND DRAINAGE SYSTEMS" gives the details.

Execution of cropping pattern and calendar

Article - 44 Agricultural extension services regarding seed, fertilizer, cultural method and disease control shall be made directly to farmers or irrigator's associations by the municipal agriculture offices in Libmanan and Cabusao.

Agricultural extension services

CHAPTER - 8 MONITORING AND RECORD

Article - 45 Daily observation of rainfall shall be made by a watermaster in the O&M Section at the rainfall station in the System Office site. The observation time shall be at 8:00 every morning. The magnitude of rainfall shall be recorded in Form I.1.

Rainfall observation

Article - 46 A leader of farmers or irrigator's association in a rotation area shall make observation of the varieties, planting date, planting acreage and growing condition of paddy in different growing stages under the guidance of the O&M Section. The results of observation shall be recorded in Form I.4, and be submitted to the O&M Section through ditchtenders.

Observation and recording of paddy cropping

Article - 47 Ditchtenders in the O&M Section shall record of all the operation and maintenance activities to be taken.

Form I.5 shall be used for recording the operation activities such as discharge control and measurement, and Form I.6 be used for recording the maintenance activities.

Operation and maintenance records

Article - 48 The O&M Section shall systematically compile all the records to be resulted in by implementing irrigation and drainage in the system.

Compilation of records

CHAPTER - 9 OTHER PROVISIONS

- Swimming in main and lateral canals Safety of life Article - 49 (1) is strictly prohibited.
 - (2) Washing and bathing are only allowed in washing steps to be provided on the inner side slope at selected places of canals.
- Article 50 Private vehicles and public transportation are not allowed to use roads service roads without any permission given by the System Office.

Use of service

Water buffalo and other animals are not Article - 51 allowed to enter into canals. Washing buffalo and other of the water buffalo and the other animals animals is only allowed in animal washing basins to be provided on the inner side at selected places of canals.

Washing of water

Article - 52 Use of the outer side slopes of canal for cultivation is strictly prohibited. slopes of canal

Use of outer side

Article - 53 Private installation of turnouts and/or outlets on the main, lateral & sublateral canals and/or on-farm ditches is illegal and is strictly prohibited.

Private . installation of turnout and out let

Article - 54 (1) The O&M Section in the System Office shall be responsible to execute the provisions mentioned in Article-49, 50, 51, 52 and 53 for main, lateral & sublateral irrigation and drainage canals.

Execution of provisions

(2) Farmers or irrigator's associations shall be responsible to execute the provisions mentioned in Article-53 for on-farm ditches.

Table.I-1 RELATION AMONG DIVERSION REQUIREMENT,
NUMBER OF PUMPS TO BE OPERATED AND
PUMP OPERATION HOURS

		چيو سند بني بنيد بنيد بنيد بنيد شده شد بند بني بند هند بن
Diversion	Nos. of	Operation
Requirement		Hours
(m3/s)	(Nos.)	(hrs.)
0.20	1	3
0.40	1	6
0.60	1	9 :
0.80	1	12
1.00	1	15
1.20	2 2	9
1.40	2.	10
1.60	2	12
1.80	. 2	13
2.00	2	15
2.20	2	16
2.40	3	12
2.60	3	13
2.80	3	14
3.00	3	15
3.20	3	16
3.40	3	17
3.60	4	13
3.80	. 4	14
4.00	4	15
4.20	4	15
4.40	4	16
4.60	4	17

Note. The above diversion requirement is that for 17 hours/day pump operation.

The pump operation hours are those for capacity operation at the low water level. So, the discharge increases when water level is higher than the low water.

Table, I-2 GATE OPERATION TIME (1/2)

Table. I-2 GATE OPERATION TIME (2/2)

Operation Time	Gates to be operated	Operation	
13:00	Main Canal Check gate Lat.B Headgate Lat.B	16:00	Main Canal All gates located from turnout MCSP-1
	Lat.B Canal All gates located from B.P.to headgate Lat.B-Ext.		to k.P. Lat.C Canal All gates located from turnout C-7
14:00	Main Canal Check gate Lat.C Headgate Lat.C Tornout gate MCSP-3		to oneck gate Lat.U-2. Lat.C-1 Canal All gates located from B.P.to check gate C1-2.
	Lat.B Canal All gates located from turnout BSP-2 to turnout B-6		<pre>Lat.C-1-Ext.1 Canal All gates located from B.P.to turnout CIX1-2.</pre>
	Lat.B-Ext. Canal All gates		Lat.F Canal All gates
	Lat.C Canal All gates located from B.P.to headgate Lat.C-Ext.1	17:00	Lat.C Canal Ali gates located from turnout C-14 to E.P.
15:00	Main Canal Check gate Lat.D, Lat.B Headgate Lat.D, Lat.E		Lat.C-1 Canal All gates located from turnout C1-3 to E.P.
	Lat.C Canal All gates located from headgate Lat.C-Ext.2 to check gate Lat.C-1		Lat.C-1-Ext.1 Canal All gates located from turnout CIX1-3 to E.P.
, v	Lat.C-Ext.2 Canal		Lat.C-2 Canal All gates
	Lat.C-Ext.3 Canal All gates		Lat.C-2A Canal All gates
	Lat.D Canal All gates		Lat.G-2B Canal

Lat.E Canal All gates

Distribution Requirement(1/#) Days Season Season Lat.Coll-Ext.1 Connel Days Fig. 122.6 Fig. 22.6 Fig. 22.	(i) Land soaking (1/3	(1/3)				બ	Land soaking (2/3)	3)		
Commanded Distribution Distrib			Requireme	nt(1/s)					Requirem	ent(1/s)
And 18.9 T	1.		Wet	1		한 : 글: :	Command. Area (ha)	Distribtion Days	Wet	Dry Season
14.9 7 7 67.8 22.6 TOTAL Area 240.9 7 7 68.9 22.6 TOTAL Area 240.9 7 7 68.9 20.9 20.9 20.9 20.9 20.9 20.9 20.9 20						łį	ļ 			0
16.8 20.8 20.8 20.9 20.9 20.9 20.9 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1	**	o		22.6			325.0	- 2	4.05.6	40.00
20.8 7 2.86.3 86.9 Block-LS4 4th Week 20.8 20.8 7 1.02.4 4th Week 20.8 20.8 7 1.02.4 31.6 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6			76.4	25.5			9			2
20.8 7 94.6 31.6 C-7 14.5 C-1		(~ }~ 1	122.4	0.04 0.04		Block-LS4 Lat. C Cana	: 	4th Week		
25.1 17.3 17.4 18.1 20.5 Const. 19.15 20.5 20	Canal		94.6	31.6				t 1	0.99	22.0
1.3 7 78.7 26.7 90.1 18.8 7 7 7 7 7 7 7 7 7			-	30.6		m ∞	28 c.	t- t-	129.1	0.4 0.6
29.9 T 200.1 30.1 C-13 C-13 T.7 T 20.2 C-13 T.7 T 20.2 C-13 T.7 T 20.2 C-13 T.7 T 20.2 T.7 T.1 T.1 T.1 T.1 T.1 T.1 T.1 T.2 C-1	•	•		26.3		0-10	18.8	t- t-	0.04	23.4
29.9 29.9 7 136.0 45.4 20.3 20.9 20.9 20.9 20.9 20.9 20.9 20.0 20.0	C-Ext.1 -1		0	30.1			,	. ~	35.0	11.7
29.9 7 136.0 45.4 Total Area 223.3 7 136.0 45.4 Total Area 223.3 7 128.1 7 128.0 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5	Area 225	r.				C1-3	-j :	7	•	71.9
29.9 7 7 136.0 45.4 77.1 77.1 77.1 230.7 77.1 230.7 77.1 230.7 77.1 230.7 77.1 230.7 77.1 230.7 77.1 230.7 77.1 230.7 77.1 230.7 77.1 25.1 41.8 Lat.C Ganal 6.1 7 CSP-2 26.4 CSP-2 26.4 CSP-2 26.4 CSP-2 CSP-2 CSP-2 26.4 CSP-2 CSP-2 26.4 CSP-2 CSP-2 26.4 CSP-2 CSP-2 26.4 CSP-2 CSP-2 CSP-2 26.4 CSP-2 CS	k-1.52	2nd Week				C1X1+3	•	t~ t	182.5	61.0
29.9 7 7 236.0 45.4 29.9 7 7 77.1 20.1 25.1 41.8 20.1 Canal 2.6 7 7 77.1 10.1 20.1 20.1 10.2 26.4 10.2 26.4 10.2 26.4 10.2 26.4 10.3 7 7 12.9 10.4 7 7 7 12.9 10.5 12.9 10.6 12.9 10.7 7 11.4 23.9 10.7 7 7 11.4 23.9 10.8 7 10.8 7 10.8 10.8 10.8 7 10.8 10.8 10.8 10.8 10				. 1		((() () () () ()	223.3	~	738.0	,
8.9 7 10.5 13.5 Block-LS5 5th Week 13.2 7 60.1 20.1 Canal Cat. Cat. Cat. Cat. Cat. Cat. Cat. Cat.			230.7	77.1	-					
Canal Canal 13.2 Canal 13.2 Canal 13.2 Canal 13.4 7 79.2 26.4 Canal Cara Canal	4. 804.		40.5	13.54 13.55		Block-LS5	:	5th Week		
al 15.2 7 75.5 25.2 26.4 Cat. Canal 7 75.5 25.2 33.1 Mcc. 1 8.2 7 7 12.9 7 7 75.5 25.2 7 14.7 7 80.5 26.9 7 7 7 114.7 38.3 47.8 12.6 8.8 7 12.9 7 7 114.7 38.3 44.5 8.8 7 12.9 7 7 114.7 38.3 44.5 8.8 7 12.9 7 7 114.7 38.3 44.5 8.8 7 12.9 7 7 114.7 38.3 44.5 8.8 7 12.9 7 7 114.7 38.3 8.6 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	· p.n.e		180	0 .		Lat.C Cans C-12	9	2	27.8	σ σ
al 8.5 7 79.2 26.4 Cart. Canal 7 7 9.2 26.4 Cat. Canal 31.4 7 7 7 12.9 12.9 7 12.9 7 133.3 44.5 D-2 Canal 41.9 7 7 133.3 44.5 D-3 Canal 41.9 7 7 11.4 23.9 E-1 E-2 40.8 7 7 115.6 38.6 E-2 40.8 7 7 7 7 7 7 7 7 15.5 25.2 Anin Canal Area 237.8 Block-LS6 Anin Canal Act. Canal Act	Car	22	60.1	20.1		CSP-2			26.8	0.8
Lat.D Canal 8.3 7 37.8 12.6 D-2 29.3 7 133.3 44.5 D-2 21.9 7 11.4 23.9 Lat.E Canal 8.2 7 7 1.4 23.9 Lat.C Canal 99.2 33.1 Lat.C Canal 11.4 7 38.3 Lat.C-2 Canal 25.2 7 114.7 38.3 Lat.C-2 Canal 25.2 7 114.7 38.3 Lat.C-2 Canal		কণ	79.2	26.4		CIX1-6	-	ţ	42.	47.7
25.3 7 133.3 44.5 D-1 21.9 7 1.35.3 12.5 D-3 41.3 7 1.35.3 44.5 D-3 41.3 7 1.35.3 44.5 D-3 41.3 7 1.4 23.9 D-3 41.3 7 1.4 23.9 15.1 E-1 48.5 7 E-1 40.8 7 1.5 6 38.6 E-1 40.8 7 T total Area 237.8 Asian Cabal Main Cabal Mc-1 20.6 Main Cabal Mc-1 20.6 T Mc-1 20.6 T Mc-1 11.4 7 38.3 11.4 7 38.3 11.4 7 38.3 11.4 7 38.3 114.7 38.3 114	,		. (O			190.6	63.7
115.6 38.6 E-1 48.5 7 7 7 7 7 1.4 23.9 E-1 48.5 7 7 25.1 15.6 38.6 E-1 48.5 7 7 40.8 7 7 7 115.6 38.6 E-1 48.5 7 7 8.2 7 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2			133.3	44.5				to to	99.6	33.3
25.4 7 115.6 38.6 E-2 40.8 7 237.4 Total Area 237.8 al 16.6 Main Cabal 8.2 7 MC-1 20.6 MC-1 20.6 7 17.7 7 80.5 26.9 MC-1 20.6 7 Lat.C Canal 25.2 7 114.7 38.3 47.9 Lat.C-2 Canal	•		71.4	(C) (220.7	73.7
3rd Week Block-LS6 Main Cabal 4.3 Canal 7 7 5.5 25.2 MCSP-1 8.2 7 MC-1 20.6 7 7 MC-1 21.8 7 80.5 26.9 17.7 7 Lat.C Canal 25.2 7 114.7 38.3 Lat.C-2 Canal			9.011	XO CX			40.8 237.8		185.6	62.0
Alock-LS6 6th Week Block-LS6 Main Cabal 16.6 7 75.5 25.2 McSp-1 8.2 7 MC-1 20.6 7 Lat.C Canal 11.4 7 38.3 Lat.C -2 Canal										
t.3 Canal 7 8.2 7 7 80.5 26.9 80.5 26.9 7 7 80.5 26.9 7 7 7 80.5 26.9 7 7 80.5 26.9 7 7 80.5 26.9 7 80.5 26.9 7 80.5 26.9 7 80.5 38.3 5.2 7 7 114.7 38.3 5.2 7 7 1 14.7 38.3 5.2 5.2 7 7 1 14.7 38.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5	nal	ช น ก	ı	u C		Block-LS6 Main Canal		6th Week		
21.8 7 7 80.5 26.9 114.7 38.3 Canal 26.5 7 1 114.7 38.3 Lat.C-2 canal 26.5 7 1 12.4 7 38.3 Lat.C-2 canal 26.5 7 1 14.7 38.3 Lat.C-2 canal 26.5 7 1 14.7 38.3 1 14.7 38.3 Lat.C-2 canal 26.5 7 1 14.7 38.3	ဗ. ဗ	۵	'n	7.67		MCSP-1		t~ t	37.3	12.5
Canal 25.2 7 114.7 38.3 Canal 26.5 7 143.3 47.9		40 1-	8 E	23 26.9		101 000 000 000 000 000 000 000 000 000	1	~ t~	51.9	
31.5 7 143.3 47.9 Jat. C-2 Canal	Canal		, P.	σ		ي ج	26	L	120.6	40.3
C-00			143.3	-1 (7	na]			4

(3/12)
REQUIREMENT
FIELD
GROSS
Table.I-3

(i) Land soaking (3/3)

Days Season 7
••••••••••••••••••••••••••••••••••••••

Table.1-3 GROSS FIELD REQUIREMENT (4/12)

(ii) Land Preparation (1/5)

out -LPI Canal B Canal -3 -CEXT.1	(ha) (ha) 14.9 16.8 57.2 26.9	α	Wet	Dry Season
nai anai anai xt.1 (116.8 257.2 26.9	1	40000	00000
nal anal anal kt. 1 (1.65.9 26.9 26.9 26.9		Segson	
P-3 B Canal C Canal	14.9 16.8 26.9 26.9	ALICE ACTION ACT		
B Canal C Canal C-Dxt.1 (16.8 57.2 26.9	21	18.0	16.1
-3 C Canal C-Ext.1 (16.2 25.2 26.9			
C Canal C-Ext.1 (25.2	23	20.3	18.1
C Canal C-Ext.1 (26.9	21	69.2	61.8
C Canal C-Ext.1 (20.0	21	32.5	29.1
C Canal C-Ext.1 (21	•	22.5
O-Ext.1 (
C-Ext.1 (20.1			
C-8xt.1 (31.3		4	33.8
C-Ext.1 (17.3	2	20.9	18.7
Ų. f	ina!		•	
•	19.8	2.1	24.0	21.4
Total Area 2	225.1			
Block-LP2		3rd-4th Weeks		
Lat.B Canal				
B-4		14		32.3
BX-1			1	54.8
P-1.		14	•	9.6
P-2	•	74	٠.	29
B1XSP-1	5.6	14	3.1	N
49	13.2	4.	٠	14.
.B-Ext. Canal	าลา			
BX-2	•	14	21.1	18.8
	о 2	\$P	10.3	on on
Lat.C Canal				
C-5	ω ω	14	0	0.6
0-0	29.3	44	35.5	31.6
Ext.2	Canal			
CX2-1	15.7	. 14	19.0	
-2	25.4	14	30.7	27.4
Total Area 2	237.4			

Table.I-3 GROSS FIELD REQUIREMENT (5/12)

63.8 79.7 101.5

71.3 89.1 113.5

Dry

Season Wet

Requirement(1/s)

Table.I-3 GROSS FIELD REQUIREMENT (6/12)

140.9

157.6

36.7 72.1 22.3 46.0

41.0 16.7 80.7 51.5 21.8

179.3 152.0

2007

170.0

1.5 1.4 1.9

17.3

106.0 55.4 104.5

118.6 62.0 116.9

122.7

137.3

	7	1	Requirement(1/8)	int(1/8)	2		
Name C of Turnout	Command. Area (ha)	ជ	Wet Season	Dry Season	Name of Turnout	Command. Area (ha)	District Days
Block-LP2		5th Week Mon. Tue.	1 2 1 1 1 1 1 1 1 1	1 6 6 9 8 6 1 7 7 7 7 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Lock-LP3		5th-6th Weeks Wed. Thu. Fri
Lat.B Canal					Lat. C-1 Ce	Canal	•
# # # # # # # # # # # # # # # # # # #	5.0	87 (126.8	113.3	2-7-7-7	2.02	ıo e
1 C C C C C C C C C C C C C C C C C C C	- c	N C	215.0	192.2	1110	0 =	.
0.000	11 c	v c		i (m	#	+	0
20210	 V	V (115.8	104.2	141 10 140 1 141 10 140 1	-	ŧ
1 - John 1 - G	9.0	A 6	21.0	ص م	C15410	- C : 60 6	DΨ
		4	0.00	0.00	Total Area	100	D
. '	1.0	c	•	Ł		,	
	* (C	9 0	20°C	20 c			٠
Lat. C Canal	,	ą	•	Q.	Block-LP4-1		th-7th Week
		N	9.50	ν. 			Wed. Thu. Fri
9-0	29.3	1 00	124.2		Lat.C Canal		
O-Ext.	2 Canal	Ì	? ! !	> -			σn
	15,7	63	8.00		6-0	о. С	Ó
CX2-2	25.4	0	107 7	ď	8-U	28.5	o:
Total Area	237.4	;	-	•	0-10	000	o (5)
					0-11	18.2	o
					O		o
Block-LP3-1		4th Week			Total Area	83.6	i
Lat.C Canal							
CSP-1	16.8	7	20.1	9.71			
Lat. C-Ext. 3	ű				Block-LF4-2		5th-7th Weeks
CX3A-2	21.8	7	26.4	23.5			Sat. Sun
CX3A-1	17.7	t-	21.4	19.1	Lat.C-1 Ca	Canal	
Total Area	56.1				01-3	47.3	ဖ
					Lat.C-1-Ext		
		ΣΨ.			CIXI-3	40-1	ω.
		Mon. Tue.			_	200	۵
Lat.C Canal					TOTAL ANGR	138	
CSP-1		-1	70.4	62.9			
Lat. U-ENT. 3	Ü				1 100 E		1 4 4 6 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CX3A-2	8.12	ਰਾ '	92.5	82.5	reductory		TOTAL OTO WEEKS
CX3A-1	17.7	4	75.0	67.1	4		
Total Area	56.1				Lat.Canal		
					C=12.	- (י מי
					CSP+Z	ń	J)
Block-LP3-2		4th Week			Lat.D Canal		c
Lat.C-1 Canal					to th	7	n (
C1X2-2	25.2	t-	30.5	27.2	1.0	6.12	י מל
<u>.</u>	دن ون	t~	38.1	34.0	E-0		מכ
C1-2	40.1	(- -	5.84	60.00	Lat. E Canal		
Lat.C-1-Ext	۲.				E F	48.5	ത
i	100	t÷	4.73	60.9	E-2	40.8	O)
				•			
2	3.0		000	٠	Total Area	206.4	

Table.1-3 GROSS FIELD REQUIREMENT (7/12)

Canal 24.2 Canal 26.5 6 6.5.3 Canal 24.2 Canal 26.5 6 6.5.3 Canal 24.2 Canal 26.5 6 6.5.3 Canal 24.2 6 6.5.3 Canal 26.5 6 6 6.5.3 Canal 3.4 6 6 6.5.3 Canal 3.4 6 6 6.5.3 Canal 4 1.1 Canal 24.2 6 6 6.5.3 Canal 24.2 9 68.5 Canal 24.2 9 68.5 Canal 24.2 9 68.5	7 X 0 X 0 X 0 X	7	Requirement(1)	ent(1/s)
LP5-2 5th-8th Weeks -1-Ext. Canal Area 1.6 Area 1.7 -1-Ext. Canal 2.1 -1.7			,	Dry Season
LP6-1 Area 31.4 Area 31.4 Area 31.4 Area 31.4 LP6-1 Canal 20.6 9 22.2 9 62.8 Canal 24.3 Area 169.9 LP6-2 Canal 26.5 Canal 26.5 Canal 26.5 Canal 26.5 Canal 26.5 Canal 26.5 Canal 27.8 Canal 26.5 Canal 26.5 Canal 27.8 Canal 26.5 Canal 26.5 Canal 27.8 Canal 24.2 Canal 27.8		th-8th We		
Area 31.4 Area 31.4 Canal 8.2 Canal 5.0 Canal 5.0 Area 169.9 Area 169.9 Canal 5.0 Canal 5.0 Area 169.9 Canal 5.0 Canal 6.0 Canal 6.0 Canal 6.0 Canal 6.0 Canal 7.0 Canal 7.0 Canal 7.0 Canal 6.0 Canal 6.0 Canal 6.0 Canal 6.0 Canal 6.0 Canal 7.0 Canal 7.0 Canal 6.0 Canal 6.0 Canal 6.0 Canal 7.0 Canal 7.0 Canal 6.0 Canal 7.0 Canal 6.0 Canal 7.0 Canal 7.0 Canal 6.0 Canal 7.0 Ca	-Ext.1 C		က်	119.0
Canal P-1 Canal Scanal Canal Sat. Sun. Sat. Sun. Canal Sat. Sun. Sat. Sun. Canal Sat. Sun. Sat. Sat. Sat. Sat. Sat. Sat. Sat. Sat.	ea 31	,		
Canal 8.2 9 53.2 20 1	Block-LP6-1	th We Thu.		
Canal 51.5 9 52.7 130 Canal 51.5 9 52.3 28 Canal 5.0 9 58.8 51 F Canal 24.3 9 58.8 61 Canal 26.5 6 6 112.4 100 Canal 26.5 6 65.3 58 Canal 24.2 6 64.4 57 Canal 24.2 9 68.6 61 Canal 24.2 9 68.6 61 Canal 27.8 9 7 7 70	Canal	,	6	t c
Canal 51.5 9 32.3 28 28 51.5 9 4 45.7 130 24.3 9 62.8 51 130 24.3 9 62.8 51 130 24.3 9 62.8 51 130 24.3 9 62.8 51 130 24.3 9 62.8 51 130 24.3 9 62.8 51 130 24.3 9 62.8 51 130 24.2 120 24.2 120 24.2 9 62.3 51 120 24.2 9 62.3 51 120 24.2 9 62.8 51 120 24.2 9 63.3 51 120 24.2 9 63.3 51 120 24.2 9 63.3 51 120 24.2 9 63.3 51 120 24.2 9 63.3 51 120 25.8 61 120 27.8 9 78.7 70 78		න ග	23.2	520.1
Canal 51.5 9 145.7 130 75.6 6 7 9 75.6 67 9 75.6 67 9 75.6 67 9 75.6 9 75.6 67 9 75.6 9 75.6 12 12 12 12 12 12 12 12 12 12 12 12 12	11.	ത	38.38	28.8
E Canal 5.0 9 14.2 12 F Canal 22.2 9 62.8 55 F Canal 24.3 9 62.8 51 LP6-2 7th-9th Weeks LP6-2 Canal 26.5 6 7 112.4 100 C-2 Canal 9.7 6 8 39.9 35 C-2A Canal 5.4 6 65.3 58 Area 75.2 6 23 SP-1 75.2 6 64.4 57 LP7-1 Wed. Thu. Fri. 6 64.4 57 Canal 9.4 9 26.6 23 Canal 24.2 9 68.5 61 Canal 24.2 9 68.5 61 Canal 24.2 9 68.5 61 Canal 27.8 9 78.7 70	Canal	Ø	140.7	130.3
F Canal 22.2 9 62.8 55 F Canal 22.2 9 68.8 61 Area 169.9 6 68.8 61 -LP6-2 Sat. Sun. Canal 26.5 6 6 112.4 100 C-2 A Canal 9.7 6 8 39.9 35 C-2 A Canal 15.4 6 6 65.3 58 -1 15.2 6 64.4 57 Area 75.2 9 66.6 23 Canal 24.2 9 68.6 61 Canal 27.8 9 78.7 70	26.	ග	75.6	67.6
F. Canal 22.2 9 62.8 55 Area 169.9 68.8 61 LP6-2	Canal	Ø	14.2	
Area 169.9 9 68.8 61 Area 169.9 7th-9th Weeks Canal 26.5 6 6 112.4 100 C-2 Canal 9.7 6 839.9 35 C-2A Canal 6 65.3 58 Area 76.2 6 64.4 57 Area 76.2 8th-10th Weeks Canal 9.4 9 139.0 124 F Canal 27.8 9 78.7 70	22	os.	62.8	
Area 169.9 -LP6-2 -LP6-2 -LP6-2 -Canal 6 -2 Canal 9.7 6 -2.2 -3.9 -	Canal 24	o	φ.	
-LP6-2 Sat. Sun. Canal Canal 112.4 100 Canal 15.4 6 112.4 100 Canal Sp. 1 15.4 6 15.4	Area 169			
-LP6-2 Canal Sat. Sun. 5 Canal 6 6 112.4 100 6 7.4 6 6 11.1 36 7.2 Canal 15.4 6 65.3 35 8-1 15.2 6 64.4 57 Area 76.2 Canal P-2 Canal P-2 Canal P-2 Canal P-2 Canal P-2 Canal P-2 Canal P-3 Canal P-2 Canal P-3 Canal P-4 Canal P-4 Canal P-				
Canal 6 Canal 6 Canal 6 Canal 7 Canal 7 Canal 7 Canal 7 Canal 8 Canal 8 Canal 9 Canal 9 Canal 7 Canal 9 Canal 7 Canal 9 Canal 7 Canal 9 Canal	3lock-LP6-2	3≊ .		
6 Canal 26.5 6 112.4 100 C-2 Canal 9.7 6 39.9 C-2A Canal 6 65.3 58 SP-1 15.2 6 64.4 57 Area 75.2 6 64.4 57 Canal 9.4 9 26.6 23 Canal 24.2 9 68.6 61 Canal 27.8 9 78.7 70				
Canal 24.2 9 6 68.5 61.1 36 65.3 58 85 61.1 36 65.3 58 85 65.3 58 84.4 57 70 68 8.5 61.1 5.2 6 68.5 61.2 6 64.4 57 70 68.5 61.2 6 61.4 57 70 68.5 61.2 61.2 61.2 61.2 61.2 61.2 61.2 61.2	26	· •	Ġ	
C-24 Cenal 5-4 Cenal 5-4 Cenal 5-7 C	Canal	SC.	_;	
C-24 Cenal 5.4 6 58-1 59-1 50-2 58-1 576.2 Area 76.2 Area 76.2 Canal 64.4 57 64.4 57 64.4 57 64.4 57 64.4 57 64.4 57 64.4 57 64.4 57 64.4 64.4 64.4 64.4 64.4 64.4 64.4 64.	, ,	Ф		
Area 76.2 Area 76.2 Canal 24.2 F Canal 27.8 Sp-1.27 Sp-1.27 Sp-2.2 Sp-2	Canai	ç		80.
Area 76.2 -LP7-1 8th-10th Weeks Canal 9.4 9 Canal 24.2 9 139.0 124 Anse F Canal 27.8 9 78.7 70		ω.		57.6
-LP7-1 8th-10th Weeks Canal 9.4 9 26.6 23 D Canal 24.2 9 68.5 61 F Canal 27.8 9 78.7 70	s. 76.			
-LP7-1 8th-10th Weeks Canal Wed. Thu. Fri. Canal 24.2 9 68.5 61 1 49.1 9 139.0 124 F Canal 27.8 9 78.7 70				
Canal 9.4 9 26.6 23 0 Canal 24.2 9 68.5 61 24 2 68.5 61 64 64 65 61 65 6	-LP7	-10th		
Canal 24.2 9 68.5 61 124 139.0 124 1	•	c		
E Canal 27.8 9 78.7 70	Canal	7		
F Canal 27.8 9 78.7 70	24	σ, (. 88 86 86 87	61.2
27.8 9 78.7 70.	Canal 48	מ	D	7.471
	27	σ ₀		

Table.1-3 GROSS FIELD REQUIREMENT (8/12)

Command. Distribtion Area Days Wet. Area Days Seasor Ala 37.8 6 160. anal 18.0 6 76. Canal 18.8 6 843 22.8 6 84 113.2 9 443 22.8 6 84 13.9 6 84 13.9 6 84 24.8 6 84 Canal 18.8 6 6 Canal 2.5 6		Requirement(1/9)
C Canal 4		Dry Season
C Canal 4 20-1 Canal 18.0 6 76. 4 35.8 6 151.0 6 76. 4 Area 121.0 9th-11th Weeks 6.2 9 17 Area 21.4 Area 21.4 6 19.9 6 6 6 19.9 6 6 6 19.9 6 6 6 19.9 6 6 6 19.9 6 6 6 19.9 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		
Conal 5.4 6 6 151. C-1 Canal 15.2 9 6 151. Area 121.0 6 151. -1 8th-lith Weeks 124. Area 21.4 8 6 124. Area 21.4 8 6 105. -2 Canal 5.4 6 6 105. -2 Canal 5.4 6 6 105. -2 Canal 2.5 6 115.	4	9
F. Canal 18.0 6 151. -1 Area 121.0 -1P8-1 Weeks 115.2 9 4 6 124. -1P8-1 Wed. Thu. Fri. -1P8-2 9th-11th Weeks 21.4 Area 21.4 -2 Canal 5.4 6 6 105 -2 Canal 18.8 6 6 105 -2 Canal 18.8 6 6 105 -2 Canal 18.8 6 6 105 -2 Canal 2.5 6 115 -2 Ca	60.3	143.3
C Canal 5.4 6 6 124 Area 121.0 -1.29.4 6 124 Area 121.0 -1.29.1 9th-11th Weeks 9 43 6.2 9 17 -1.29.2 8th-11th Weeks 8 105 -2 Canal 5.4 6 6 105 -1 19.9 6 84 C Canal 2.4 8 6 105 -2 Canal 2.5 6 110 -2 Canal 2.5 6 110	76.3	68.2
C-2A Canal Area 121.0 -LP8-1 F Canal Area 21.4 Area 21.4 -LP8-2 G Canal C Canal Sat. Sun. C Canal 5.4 6 6 19.9 6 79 C-2 Canal 22 6 79 C-2 Canal 70 71 71 71 71 71 71	51.8	135.7
Area 121.0 -LP8-1 F Canal F Canal F Canal Area 21.4 Area 21.4 Area 21.4 -LP8-2 9th-11th Weeks 17 -2 Canal 5.4 6 6 105 -2 -2 Canal 5.4 6 6 139 6 6 139 6 6 139 79 79 79 79 70 70 70 70 70 7	4	77.1
1 9th-11th Weeks 15.2 9 43 6.2 9 17 21.4 21.4 24.8 6 84 19.9 6 88 32.8 6 105 Canal 18.8 6 6 139	· •	
F Canal 15.2 9 43. Area 21.4 9 17. -LP8-2 9th-11th Weeks Sat. Sun. C Canal 5.4 6 105 -2 24.8 6 105 -1 19.9 6 139 C-2 Canal 18.8 6 139 C-2 Canal 2.5 6 150 C-2 Canal 2.5 6 150		
Area 21.4 Area 21.4 -LP8-2 9th-11th Weeks C Canal 5.4 6 22 -2 24.8 6 105 -1 19.9 6 84 C-2 Canal 18.8 6 139 C-2 Canal 2.5 6 110 C-2 Canal 2.5 6 115		
Area 21.4 -LP8-2 C Canal 5.4 5 22 -2 24.8 6 6 105 -1 19.9 6 79 C-2 Canal 18.8 6 6 139 6 79 C-2 Canal 2.5 6 6 139	er c	00 t
9th-11th Weeks 1 5.4 6 22.2 24.8 6 105 19.9 6 84 32.8 6 139 anal 18.8 6 79 anal 2.5 6 115	•	1
9th-11th Weeks 1 5.4 6 22 24.8 6 105 19.9 6 8 84 32.8 6 139 nal 18.8 6 79 anal 2.5 6 115		
al 5.4 6 22 24.8 6 105 105 105 105 105 105 105 105 105 105		
5.4 6 22 24.8 6 105 19.9 6 84 32.8 6 139 38.8 6 79 79 79 79		
24.8 6 105 19.9 6 84 32.8 6 139 (anal 18.8 6 79 Canal 8.5 6 10	22.9	20.5
19.9 6 84 139 86 139 86 139 87 88 8 6 79 79 79 8 8 79 79 79 8 8 79 79 79 8 8 79 79 79 8 8 79 79 79 8 8 79 79 79 8 8 79 79 79 79 79 79 79 79 79 79 79 79 79		94.0
32.8 6 139 Canal 28.8 6 79 Canal 2.5 6 10		LC)
anal 18.8 6 79 79 Canal 2.5 6 10 10 115	3	124.3
Canal 6 79 79 79 79 79 79 79 79 79 79 79 79 79		
(digt) 2.5 6 10 73 8 6 1133		71.3
2 7 2 A	<	
0.77	in	103.5
42.9 6 181	181.9	162.6

Table.1-3 GROSS FIRLD REQUIREMENT (9/12)

Table.1-3 GROSS FIELD REQUIREMENT (10/12)

		Die thirt	Requireme	t(1/s)	Name Command	1. Distribtion	Requirement(1/s)	nt(1/s)
	Area (ha)	DASS	Wet Season	Dry Season	of Area Turnout (ha)		et ason	Dry Season
Block-NI1	 	5th-17th Weeks Mon. Tue.	9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8			7th-19th Weeks Wed. Thu. Fri.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
Main Canal MCSP-3	o. ₽	26	58.7	88.7	Lat.C-1 Canal C1X2-2 25.1		66.3	100.0
Lat. B Canal		ζ.	. (6		or c	85.0	125.1
BSP-3 B-1	16.8	2 62 20 63	66.2 225.4	100.0 340.0	Ext. 1		105.5	2.801
B-2	26.9	5.2	106.0	160.1		ф (6)	φ.	221,1
B-3 Lat. C Canal	20:8	58	82.0	123.8	CIAL-2 32.0 Total Area 184.5	"	84 - 2	
	20.1		79.2	119.6		.*		
	e e - e - e	26	123.3	186.2	1 - W1 W - W - W - W - W - W - W - W - W	70000 4+00-4+0		
C-4 Lat.C-Ext.1	Canal		7.00	102.3	1:442-43040	Wed, Thu. Fri.		
	3.0	26	78.0	117.8	Lat.C Canal	•	•	
Total Area	225.1				O.1.0	50 CO	23 CA 25 CA 25 CA	23.6
						·m	0.67	113,1
Block-NI2		6th-18th Weeks				e	23.1	34.9
		Mon. Tue.			001111111111111111111111111111111111111	ന്	4 0 6- C	72.3
Latib Canal	ç	ů,	0 717	0 44.	8674	•	2.04	2
1 - X E	50.0	28	8,661	301.7)		
BSP-1	00	26	35.1	53.0				
BSP-2	27.5	26	108.4	163.6	Block-NI4-2	8th-20th Weeks		
BIXSP-1	2.8	26	10.2	15.5		Sat. Sun.		
	13.2	56	52.0	78.5	Lat.O-1 Canal	, r	- 49 0	100
Ext	- (6	c	0	C	-1-Fvt 1	1	* 00 7	
BX-2 BX-3	. 80	56	900 900 900	50.6	,	1 26	158.0	238.6
Canal					1-4	73	90	11.
	8 9	26	32.7	6	Total Area 139.	·~		
4	29.3	26	'n	4.				
となる・しょはメセ・ム		o u	61.9	m	Block-NI5-1			
	4.00	0 0 0	0	151.1		Wed, Thu, Fri.		
rea	237.4	;			Lat.C Canal	. •		
-					ф m	. 1 . 0 . 0 . 0	15.5	23.4.2
Block-N13-1		7th-19th Weeks			Canal	,		
() + C		Mon. Tue.			D-2 41,9 D-1 21,9	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	110.2	86.9
CSP-1	16.6	56	65.4	8.86			108.6	
Lat.C-Ext.3	Cana				Canal	•	1	;
CX3A-2	21.8	26	85.9	129.7	E-1 48.5	on co	127.6	192.5
CX3A-1		26	0.00			ů	5	

Table.I-3 GROSS FIELD REQUIREMENT (11/12)

(iii) Normal Irrigation (3/4)

of Turnout			4		
	Area (ha)	Days	ys ys	Wet	Dry
Block-NI5-2	; ; ; ;	9th-21st Weeks	Weeks		1 1 1 1 3 4
Lat.C-1-Ext.	.1 Canal			1 1	1
CiAi-b Total Area	31.4 4.1.6	26		123.7	186.8
Block-NI6-1		10th-22nd Wad Thu	Weeks Tri		
Main Canal	d			c c	\$ \$
MO. I	20.6	# G		54.5	37. 81.8
MC-2	11.4	99		30.0	45.3
	51.5	900		135	204.5
Lat.E Canal				2 1	0
म् । १	22.2	ກ ຫ ຕ		13.2	9.00 88.1
Lat.F Canal				((
r-1 Total Area	169.9	n n		D. 10	86.5
Block-NI6-2		10th-22nd Sat.	Weeks		
Lat.C Canal		3			
C-16 Lat.C-2 Canal	26.5	56		104.4	157.7
	φ, (26		388.0	57.7
CZSY-1 Lat.C-2A Canal		92		37.0	n G
	15.4	26		60.7	91.6
C2ASP-1 Total Area	15.2 76.2	56		59.9	90.4
	•				
Block-NI7-1		11th-23rd	Weeks		
		Wed. Thu.	Fri		
MCSP-2	Q.	. 8		24.7	37.3
DSP-1 D-6	24.2 49.1	99		63.6 129.1	96.1 194.9
rater canal F-2	27:8	on en		73.1	110.4

Table.I-3 GROSS FIELD REQUIREMENT (12/12)

86		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4	Requirement(1/s	ent(1/s)
	Area (ha)			က	Dry Season
Block-N17-2		h-23rd		1	
ָרָ מָּצְּיִיּטְּרָ בְּיִיִּיִּיִּיִּיִּיִּיִּיִּיִּיִּיִּיִּי		Sat	Sun.		
G-14	37.8	26		148.9	224.
Lat.C-1 Canal	_,				
C1SP-2	18.0	26		8.07	107
C1-4	35.8	26		141.1	213.0
Lat. C-2A Canal					
C2A-1	29.4	26		115.8	174.
Total Area	121.0				
Block-NI8-1		12th-24th Wed. Thu.	Weeks Fri.		
Lat.F Canal					
	15.2	6		40.0	0.6
14 4	5.2	000		16.3	24.
Total Area	21.4	•			• .
0 0114 144 0		1100 1101	73 1		
7+OTN-WOOTS		. Sat.	Sun.		
Lat.C Canal					
C-15	10	26		21.3	32
CX4-2	24.8	26		-	147.
CX4-1	19.9	28		18.	118
	32.8	26		129.2	195.2
Lat.C-2 Canal					
	18.8	26		74.1	111
Lat. C-2A Cana	-				
C2A-2	2.5	26		6.6	14
C2ASP-2	27.3	26		107.6	162
Lat. C-2B Canal	-	٠			
C2B-1	42.9	26		169.0	255
					,

Note. All the above gross field requirements in respective irrigation stages are those for 17 hours/day pump operation.

Table 1-4 DIVERSION WATER REQUIREMENT AT HEADGATE (1/19)

Command Wet Senson Bequirement (m3/s)
Area Area Mon. Wed. Sat. Non. Wed. Sat.
Thu. Thu. Thu. Sun.

Table, 1-4. DIVERSION WATER REQUIREMENT AT HEADGATE (2/19)

0.82 0.82 0.82

0.25

0.25

0.43

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100			1 + 1	(6/61)								
		'n	Versi	Diversion Requirement (m3/8)	100000	8 / CE	********					Ulversion K	Ulversion Require	5
	Command	3.	اند	uoz	Dr	Dry Season	BOD	6 E B X		Command	3:	Wet Senson		
ot Headkate	(PA)	Mon.	Yed. S		Mon.	7 1 E		Neadgate	ate	(ha)	Mon.	Thu.	Sat.	,
ron I	1837.6	1.38	1.38	1.38	0.46	0.46	0.46	Pump Station Main Canal	e o	1837.6	1.83	1.83	1.83	
	280.4 1557.2	0.64	0.64	0 64	0.21	0.21	0.21	HG-Lat.B Lat.B Main		280.4	1.00	1.00	1.00	
၁ ရ	1046.1	0.46	0.00	0.46	0.15	0.15	0.15	NO-LAT.C LAT.C MAIN HG-LAT.D		1046.1	0.53	0.53	0.53	
Lat.D Main Main Lat.R Main Moin Main Lat.F Main	2556.6 239.6 123.1 73.5						·	Het.D Het.E Lat.E Main Hot.E Lat.F Lat.F		256.6 239.6 116.5 123.1 73.5			:	
Lat.B Canal HG-Lat.B-Ext. Lat.B-Ext. Lat.B	25.9 43.3	00.00	0.00	00.0	00.00	0.00	0.00	Lat.B Genal HG-Lat.B-B Lat.B-Ext Lat.B	At.B Canal HG-Lat.B-Ext. Lat.B-Ext. Lat.B	23 45 30 50 20 50 20 50	0.14	0.14	0.14	
lat.C Canal HG-Lat.C-Ext.1 Lat.C-Ext.1 Lat.C	1 19.8 974.9	0.10	0.10	0.10	0.03	0.03	0.03	Lat.O Canal HG-Lat.C-Ex- Lat.O-Ext.	2) - ·	19.8 974.9	0.03	0.03	0.03	
MG-Lat.C-Ext.2 Lat.C-Ext.2 Lat.C	2 11.1 933.8	0.00	0.00	0.00	0.00	0.00	0.00	NG-1-12 LAT. 0 LAT. 0	- Ext.2	41.1	0.22	0.22	0.22	
Lat.C-Ext.3 Lat.C-Ext.3 Lat.C	39.5 839.4	00.0	00:00	00.0	0.00	0.00	00.00	Lat.C-Ext. Lat.C-Ext. Bot.C-Ext.	Lat.C-Ext.3 Cat.C	39.5	00.0	0.00	0.00	
Lat.C-1 Lat.C-1 Lat.C-2 Lat.C-2 Lat.C-2 Lat.C-2	409.4 413.4 170.6 147.2							Lat.C-1 Lat.C HG-Lat.C-1 Lat.C-2 Lat.C-2		409.4 413.4 170.6		•		
Lat.C-1 Canal MG-Lat.C-1-Ext.1 Lat.C-1 Ext.1 Lat.C-2 Canal HG-Lat.C-2A Lat.C-2A Lat.C-2A Gat.C-2A Gat.C-2A	211.5 172.7 172.7 89.8 61.7			•				Lat.C-1 G IG-Lat.C Lat.C-1 Lat.C-1 Lat.C-2 G MG-Lat.C Lat.C-2 Lat.C-2	enal Ext.1 enal	211.5 172.7 89.8 61.7			•	
HG-Lat.C-2B Lat.C-28 Lat.C-2	42.9							HG-Lat.C Lat.C-2 Lat.C-2	G-Lat.C-2B Lat.C-2B Lat.C-2	9.0				į

0.05

0.02 0.02 0.16

Table.1-4 DIVERSION WATER REQUIREMENT AT HEADGATE (3/19)

		2 !	Diversion		Requirement	(m3/B	_
Name of	Command		t e	Senson	Ω .	Dry Sea	σ,
Hendrate	(ha)	0 2	Tred	Sat.	Š.	The d	
Pump Station	837.8						-
Main Canal HG+Lat.B			:	j	•	:	
Lat.B Main	280.4	0.39	0.39	0.39	0.35	0.35	0.0
MG-Lat.C					. '		
Lat.C Main	1046.1	0,00	0.00	0.00	0.00	0.00	90
HG-Lat.D							
Main	239.6						
HG-Lat.E	4						
Main Main	123.1						
HG-Lat. F							
Main Main	9.4						
Lat.B Canal							
MG-Lat.B-Ext.	96		<	<	C	<	
Lat.B	9 6	0.06	0.06	0.06	0.05	0.05	00
Lat.C Canal							
MG-LAC.C-EXT.	- 6	0	0.	٥,	0	0	9
Latio		1,39	1.39	1.39	0.54	0.54	0.54
Lat.O-Ext.2	, 1.		90.0			۰.	٥.
	933.8	1.34	1.34	1.34	0.49	0.49	0.49
Lat.C-Ext.3	39	6.3	7	N	0.07		0
Lat.C	839.4	1.05	1.05		0.35	0.35	0.35
HG-184.C-1	6	Œ			0.32		6
•	413.4	0.00	00.0	0.00	0.00	0.00	0.00
HG-Lat.C-2 Lat.C-2	0						
Lat.C	147.2						
Lat. C-1 Canal							
HG-Lac.C-1-EX		₹2	7			-	-
Lat.C-1	23	0.37	0.37	0.37	0.13	0.13	0.13
Lat.C-2 Canal							
Int.C-24	89.	٠			•		
Lat. C-2	9	• !		٠			
Lat. C-2B	6.2						
	1						

Table.1-4 DIVERSION WATER REQUIREMENT AT HEADGATE (4/19)

4th Week

Agate (ha) Mon. Wed. Sat. Hon. Wed. Station 1837.6 2.52 2.52 1.48 1.48 Canal Section 1837.6 2.52 2.52 1.48 1.48 Canal Section 1.74 1.74 0.90 0.90 Canal Section 1.74 1.74 0.90 Canal Section 1.74 1.74 0.90 Canal Section 1.74 1.74 0.90 Canal Section 1.74 0.74 0.74 Canal Section 1.74 0.74 0.74 Canal Section 1.74 0.74 Canal Section 1.75 0.75 Canal Section 1.75 Canal S	Arate (ha) Station 1837.6 2 Canal 280.4 0 At. B 280.4 0 At. C 1046.1 1 At. C 239.6 At. C 239.6 At. C 239.6 At. C 25.9 0 Canal At. F 73.5 At. C 25.9 0 C 25.9 0 At. C 25.9 0 A	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Sun.	I S	1 3	1
Tur. Fri. Sun. Sun. Tur. Fri. Sun. Sun. Tur. Fri. Sun. Sun. Tur. Fri. Sun. Sun. Sun. Sun. Sun. Sun. Sun. Sun	Canal Attion 1837.6 Canal 1857.2 241.6 1857.2 241.1 255.6 Att.C. 1857.2 286.4 Att.C. 1857.2 286.6 Att.C. Att.C	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Sun		Thu.	Sat,
Station Canal At. B 280.4 0.39 0.39 0.35 0.35 0.35 At. C 1046.1 1.74 1.74 0.90 0.90 0.90 At. C 107 1.07 107 1.07 107 1.07 107 1.07 108 1.08 0.00 0.00 0.00 0.00 0.00 108 1.08 1.08 0.09 108 1.08 1.08 0.09 108 1.08 1.08 0.09 108 1.08 1.08 0.09 108 1.08 1.08 0.09 108 1.08 1.08 0.09 108 1.08 1.08 0.09 108 1.08 1.08 0.09 108 1.08 1.08 0.09 108 1.08 1.08 0.09 108 1.08 1.08 0.09 108 1.08 1.08 0.09 108 1.08 1.08 0.09 108 1.08 1.08 0.09 108 1.08 1.08 0.09 108 1.08 1.08 0.09 108 1.08 1.08 0.09 108 1.08 1.08 1.08 0.09 108 1.08 1.08 1.08 0.09 108 1.08 1.08 0.09 108 1.08 1.08 1.08 0.09 108 1.08 1.08 1.08 0.09 108 1.08 1.08 1.08 0.09 108 1.08 1.08 1.08 0.09 108 1.08 1.08 1.08 0.09 108 1.08 1.08 1.08 0.09 108 1.08 1.08 1.08 0.09 108 1.08 1.08 1.08 0.09 108 1.08 1.08 1.08 0.09 108 1.08 1.08 1.08 0.09 108 1.08 1.08 1.08 0.09 108 1.08 1.08 1.08 0.09 108 1.08 1.08 1.08 0.09 108 1.08 1.08 1.08 0.09 108 1.08 1.08 1.08 0.09 108 1.08 1.08 1.08 1.08 1.08 1.08 1.08 1	Station 1837.6 2 Canal 280.4 0 A4C. 1046.1 1 A4C	33 2.5 39 0.3 00 2.0 00 0.0 0.0 0.0 0.0		٠.	FF	Sun.
The same of the sa	Tanal Canal Ca	2 2 3 4 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		9		
EN 1557.2 2.06 2.06 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07	Att. F 280.4 0 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	39 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1		•	:
######################################	1557.2 2 24.0 1046.1 1 256.6 1 256.6 1 256.6 1 256.6 1 257.2 2 259.6 1 250.6	2.0 2.0 2.0 3.0 3.0 4.0 3.0 4.0 5.0 6.0 6.0	9.0	43	•	0.35
Tr. C. 1046.1 1.74 1.74 1.74 0.90 0.90 0.00 0.00 0.00 0.00 0.00 0.0	Canal Ca	7.7. 0.00 0.00 0.00 0.00 0.00 0.00	.; .;	0	•	0
The control of the co	T. B. C.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		•	•	•
D 256.6 E 116.5 F 73.5	The state of the s	0.0	* 0		? C	90
D 256.6 116.5 E 117.5 E 117	Canal Canal Canal Canal Canal Canal Canal Caral Caral Caral Carac Caral	064	;	•	•	3
THE E 116.5 F. F. T.3.5 Canal Caral Canal Cana	TH. E. 116.5 At. F. 73.5 Canal tt.B-Ext. 25.9 Canal C. CExt. 19.8 C. CExt. 241.1 C. CExt. 241.1 C. CExt. 241.1 C. CExt. 241.1 C. CExt. 39.5 C. CExt. 39	064				
Tr. E 123.1 14. F 123.1 14. F 123.1 14. B-Ext. Canal 15. S. 9 0.04 0.04 0.04 0.03 0.03 Canal 15. S. 9 0.04 0.04 0.04 0.03 0.03 Canal 15. Canal 15. Canal	Canal Canal Canal Canal Canal Canal Conext Cone	064				
Table 123.1 At. F 73.5 Canal At. B-Ext. 25.9 0.04 0.04 0.03 0.03 0.05 Canal At. C-Ext. 3 0.05 0.05 0.05 0.05 0.05 Canal At. C-Ext. 3 0.05 0.03 0.03 0.05 0.05 C. Ext. 3 0.05 0.05 0.05 0.05 0.05 C. Ext. 3 0.05 0.05 0.05 0.05 0.05 At. C-Ext. 3 0.05 0.05 0.05 At. C-I 409, 4 0.09 0.09 0.05 At. C-I 409, 4 0.00 0.00 0.00 0.00 At. C-I Ext. 1 211.5 0.61 0.61 0.61 0.61 0.27 C-I Ext. 1 172.7 0.35 0.35 0.35 0.35 C-Z Canal At. C-Z S S S S S S S S S S S S S S S S S S S	At.F. 73.5 At.F. 73.5 Canal Canal VC-Ext.1 CC-Ext.2 CC-Ext.2 CC-Ext.2 CC-Ext.2 CC-Ext.3	04 0.06				
Canal (Chail	Canal Canal Canal Canal Canal Canal Canal Caret. Ca	.04 0.				
Canal tt.B-Ext. 25.9 0.04 0.04 0.04 0.03 0.03 Canal tt.B-Ext. 25.9 0.04 0.04 0.04 0.05 0.05 Canal tt.C-Ext.2 974.9 1.64 1.64 0.03 0.05 0.05 Canal tt.C-Ext.2 41.1 0.06 0.06 0.06 0.05 0.05 C-Ext.3 93.8 1.58 1.58 1.58 0.76 0.05 C-Ext.3 93.8 1.58 1.58 0.76 0.05 C-Ext.3 93.9 0.99 0.99 0.99 C-Ext.3 170.6 0.00 0.00 0.00 0.00 0.00 C-I 409.4 0.44 0.44 0.44 C-I 409.4 0.99 0.99 1.5 0.15 0.15 tt.C-1-Ext.1 C-Ext.3 1.5 0.15 0.15 tt.C-1-Ext.1 C-Ext.3 1.5 0.15 0.15 tt.C-1-Ext.1 C-Ext.3 1.5 0.17 0.17 C-I 409.4 0.35 0.35 0.35 C-I 47.2 0.00 0.00 0.00 0.00 0.00 C-I 172.7 0.35 0.35	Canal Canal Canal Canal Canal Canal Care Care Care Care Care Care Care Care	.04 .06				
Canal tt.B-Ext. 25.9 0.04 0.04 0.04 0.03 0.03 B-Ext. 25.9 0.04 0.04 0.04 0.03 0.03 Canal tv.C-Ext. 3 0.06 0.06 0.06 0.05 0.05 C-Ext. 37.9 1.64 1.64 1.64 0.81 0.81 C-Ext. 33.8 1.58 1.58 0.05 0.05 C-Ext. 33.8 1.58 1.58 0.05 0.05 C-Ext. 393.8 1.58 1.58 0.05 C-Ext. 393.9 1.64 1.65 0.06 C-Ext. 393.9 0.06 0.06 0.06 C-Ext. 393.9 0.09 0.00 C-Ext. 393.9 0.00 C-C-Ext. 393.9 0.00 C-C-	Canal (t.B-Ext. 25.9 0 (c.Call 19.8 0 (c.Call 19.8 0 (c.Cart. 1974.9 1 (c.Cart. 241.1 0 (c.Cart.	04 0.				
Canal (L.BExt. 25.9 0.04 0.04 0.03 0.03 (Canal (C.Ext.2 (C.Ext.2 (C.Ext.2 (C.Ext.2 (C.Ext.2 (C.Ext.2 (C.Ext.2 (C.Ext.3 (C	Canal (t.B-Ext. 25.9 0 B. Ext. 25.9 0 Canal (t.C-Ext. 2 41.1 0 C. C. 933.8 1 C. C. Ext. 3 39.5 0 C. C. Ext. 3 39.5 0 C. C. Str. 3 39.5 0 C.	.04 0.				
Canal W.CExt. 19.8 0.04 0.04 0.05 0.05 0.05 0.05 0.05 0.06 0.06 0.06	### B	0 0 0				
Let.B-Ext. 25.9 0.04 0.04 0.03 0.03 0.03 0.03 0.03 0.04 0.05 0.06 0.06 0.06 0.06 0.06 0.05 0.05	Let.B-Ext; 25.9 0 L.C CenelLat.C-Ext.1 19.8 0 Lat.C-Ext.2 41.1 0 Lat.C-Ext.2 41.1 0 Lat.C-Ext.2 43.8 1 Lat.C-Ext.3 39.5 0 Lat.C-Ext.3 39.5 0 Lat.C-C 1 409.4 0 Lat.C-1 413.4 0 Lat.C-1 Cenel Lat.C-1 Cenel Lat.C-1 Cenel L.C-1 Cenel L.	04 0				
L.C Canal L.C Ca	Lat.B 43.3 0 Lat.Connal Lat.Conna	.06 0.	.0	0	0	0
L.C Canal 	C Canal J-Lat.C-Ext.1 19.8 0 J-Lat.C-Ext.2 41.1 0 Lat.C-Ext.2 41.1 0 Lat.C-Ext.3 39.5 0 Lat.C-Ext.3 39.5 0 Lat.C-1 409.4 0 Lat.C-2 170.6 0 Lat.C-2 170.6 0 Lat.C-1 Canal		0	Ģ.	Ġ	0.05
Just.C-Ext.1 Just.C-Ext.1 Just.C-Ext.2 Just.C-Ext.2 Just.C-Ext.2 Just.C-Ext.2 Just.C-Ext.2 Just.C-Ext.3 Just.C-I Just						
Lat.C-Ext.1 19.8 0.03 0.03 0.02 0.02 0.02 0.02 0.02 0.02	Jat.C-Ext.1 19.8 0 Jat.C-Ext.2 974.9 1 Jat.C-Ext.2 933.8 1 J-Lat.C-Ext.3 39.5 0 Jat.C-I 409.4 0 Jat.C-I 413.4 0 Jat.C-I 620.1 170.6 0					
Lat.C-Ext.2 41.1 0.06 0.06 0.05 0.05 0.05 0.05 0.05 0.05	Junt. C-Ext. 2 974.9 1 Junt. C-Ext. 2 41.1 0 Ant. C-Ext. 2 933.8 1 Junt. C-Ext. 3 39.5 0 Ant. C-Ext. 3 39.5 0 Ant. C-Ext. 3 41.4 0 Ant. C-1 413.4 0 Ant. C-2 170.6 0 Ant. C-1 Canal Light. C-1 Canal	.03 0.	3 0.0	0	•	¢
J-Lat.C-Ext.2 J-Lat.C-Ext.2 J-Lat.C-Ext.2 J-Lat.C-Ext.3 J-Lat.C-Ext.3 J-Lat.C-1 J-Lat.C-2 J-Lat.C-2 J-Lat.C-2 J-Lat.C-2 J-Lat.C-1 J-Lat.C-1 J-Lat.C-1 J-Lat.C-1 J-Lat.C-2 J-Lat.C-1 J-Lat.C-2 J-Lat.C-1 J-Lat.C-1 J-Lat.C-2 J-Lat.C-2 J-Lat.C-1 J-Lat.C-2 J-Lat.C-3 J-Lat.C-4 J-Lat.C-4 J-Lat.C-4 J-Lat.C-4 J-Lat.C-4 J-Lat.C-4 J-Lat.C-4 J-Lat.C-4 J-Lat.C-4 J-	J-Lat.C-Ext.2 at.C-Ext.2 at.C-Ext.3 -Lat.C-Ext.3 39.5 at.C-Ext.3 39.5 at.C-Ext.3 at.C-Ext.3 at.C-1 413.4 at.C-2 170.6 at.C-2 170.6 at.C-1 -Ext.1	64 1	4 1.6	œ	•	0.81
Let.C-Ext.2 41.1 0.06 0.06 0.06 0.05 0.05 Let.C-Ext.3 33.8 1.58 1.58 0.76 0.75 Let.C-Ext.3 39.5 0.06 0.06 0.06 0.05 0.75 Let.C-Ext.3 39.5 0.06 0.06 0.06 0.05 0.05 Let.C-1 409.4 0.49 0.99 0.99 0.47 Let.C-1 409.4 0.49 0.49 0.49 0.47 Let.C-2 170.6 0.00 0.00 0.00 0.00 0.00 L.C-1 Canal Let.C-2 170.6 0.00 0.00 0.00 0.00 0.00 L.C-1 Canal Let.C-1 172.7 0.05 0.05 0.05 0.07 L.C-1 Canal Let.C-2 Canal Let.C-2 5 0.00 0.00 0.00 0.00 0.00 0.00 L.C-2 Canal Let.C-2 6 0.00 0.00 0.00 0.00 0.00 L.C-2 Canal Let.C-2 6 0.00 0.00 0.00 0.00 0.00 L.C-2 Canal Let.C-2 6 0.00 0.00 0.00 0.00 0.00	Lat.C-Ext.2 41.1 0 Lat.C-Ext.3 39.5 0 Lat.C-Ext.3 39.5 0 Lat.C-Ext.3 839.4 1 Lat.C-1 409.4 0 Lat.C-2 170.6 0 At.C-2 170.6 0 At.C-2 170.6 0 At.C-1 Canal					
Aat.C. Ext. 332.8 1.58 1.58 0.76 0.76 0.76 0.76 0.76 0.76 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.0	## ## ## ## ## ## ## ## ## ## ## ## ##	0 0 90		Ġ	۰.	0.05
Lat.C-Ext.3 39.5 0.06 0.06 0.05 0.05 0.05 0.05 0.05 0.		.58 1.5	 		۲.	۲-
Att. C-axt. 3 35.5 0.00 0.00 0.00 0.00 0.00 0.00 0	71.Cat.C-1 839.4 1 1.Lat.C-1 469.4 0 1.Lat.C-1 413.4 0 1.Lat.C-2 170.6 0 1.at.C-1 Canal 1.C-1 Canal 1.Lat.C-1-Ext.1			•		
ALC. C. C	AR.C1 409.4 0 AR.C2 413.4 0 -1.bat.C2 170.6 0 AR.C2 177.2 0 AR.C1 Canal	90.	٠ د د	9 9	? '	0.0
10.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	184.0-1 409.4 0 184.0-1 413.4 0 1-184.0-2 170.6 0 181.0-1 0 147.2 0 1-184.0-1-5xt.1	.1 04.	 	٥	٥	٥
ALCOLD 403.4 0.55 0.55 0.55 0.57 0.47 0.47 0.47 0.47 0.47 0.47 0.47 0.4	18.00 18.00		•	•	٠	
T.C1 Canal T.C1 Canal T.C1 Canal T.C1 Canal T.C1 Canal T.C1 Canal T.C1 Canal T.C1 Canal T.C1 Canal T.C2 Canal	413.4 0 413.4 0 41.0-2 170.6 0 41.0 147.2 0 10-1 Canal 1-1-1-1-1-1-1	9	э Э	* •	٠.	**
L.C-1 Canal L.C-1 Canal L.C-1 Canal L.C-2 Canal	Jat.C-2 170.6 0 Jat.C-2 147.2 0 t.C-1 Canal	5	4.0	•	•	7
At.C. 147.2 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	at.C 147.2 0 147.2 0 1-C-1 Canal 3-Lat.C-1-Ext.1	9	•			•
E.C-I Canal L-Iat.C-I-Ext.i A.C.I-Fxt.i 211.5 0.61 0.61 0.81 0.27 0.27 A.C.I-Fxt.i 211.5 0.61 0.61 0.81 0.27 0.27 A.CZ Canal J-Lat.C-ZA 89.8 A.CZ 61.7 A.CZ 61.7 A.CZ 61.7 A.CZ 61.7 A.CZ 61.7	t.C-1 Canal G-Lat.C-1-Ext.1	00	0			000
L.C-I Canal -Lat.C-l-Ext.i -Lat.C1-Ext.i 211.5 0.61 0.61 0.61 0.27 0.27 .C-Z Canal -LC-Z Canal -LC-Z Canal -LC-Z Canal -LC-Z Canal -LC-Z Canal -LC-Z 61.7 0.17 -Lat.C-Z 61.7 0.35 0.35 0.17 0.17 -Lat.C-Z 89.8 4.9 9	t.C-1 Canal J-Lat.C-1-Ext.				•	:
	-kat.C-1-Ext.	٠.	٠			
AACCI-Fxt.1 211.5 0.61 0.61 0.27 0.27 0.27 0.27 0.15 0.35 0.35 0.35 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17				- 1	. '	
1.C-2 Cenal At.C-2A 89.8 at.C-2 61.7 A-1.C-2B 61.7 A-1.C-2B 40.9	-EXT.: 211.5 U	ر د د د	o e ⊃ c	N F	٧.	0.27
L.C-Z Canal O-Lat.C-2A At.C-2 89. Jat.C-2B 61. O-Lat.C-2B 49.	7	3	,	•	•	•
2. 89. .C-28 61.	240.7					
.2 89. .C-2B 61.	87-74					
C-2B 51.	. KA					
C=28	.10					
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44.	ن د					

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Table. 1-4 DIVERSION WATER REQUIREMENT AT HEADGATE. (6/19)

6th Week (1/2)

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DIVERSION WATER REQUIREMENT	
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5th Week

	, a	iversi	Diversion Requirement (m3/s)	rement	8/£#)					1	01830410	Diversion Requirement (m3/8	rement	2 / DE / I	-
Command		Wet Season				Bon	Name		Command		Wet Season	ro:		Dry Sesson	HOR
Area (ha)	Mon.	Thu.	Sat.	Mon.	wed. Thu.	Sat.	1		(ha)	Top.	Ted.	Sat.	Mon.	Fri	Sat.
837.6	4.37	2.50	2.26	3.60	1.42	1.20	10. 20	-	837.6	4.28	3.32	2.49	4.63	2.13	1.38
280.4	1.33	2,50	0.00 2.28	1.52	0.00	1.20	HG-Lat.B Lat.B Main		280.4 1557.2	1.27	3.32	0.00	1.92	2.13	0.00
1046.1	1.33	1, 12	0.91	1.10	0.87	0.68			1046.1	1.42	1.31	1.23	1,62	0.95	0.88
256.6	0.55	0.55	0.55	000	0.18	0.18			256,6	0.41	0.75	0.41	0.14	0.44	0.14
123.1	0.47	0.47	0.47	0.16	0.16	0.16			116.5	0.10	0.43	0.14	0.05	0.31	0.05
5.4							nc-tat.y hat.y Main		2 20 20 20 20 20 20 20 20 20 20 20 20 20	0.13	0.13	0.13	0.04	0.04	0.00
43.3	0.13			0.11			Lat.B Csmal HG-Lat.B-E Lat.B-Ext Lat.B	Lat.B Canal HG-Lat.B-Ext. Lat.B-Ext. Lat.B	25. 63.9 6.0	0.12			0.18 0.30		
18.8	9.03	0,00	0,00	0.14	0.00	0.00	.1	* : :	13.8 974.9	0.09	0.00	0.00	1.14	0.00	0.00
933.8	0.20	0,00	0.00	0.18	0.00	0.00		•	41.1 933.8	0.19	1.31	0.00	0.28	0.00	0.00
39.5	0.19	0.00	0.00	0.17	0.00	0.00		, e.	39.5	0.18	0.00	0.00	0.27	0.00	0.00
409.4	0.16	0.78	0.85	0.05	0.61	0.66			409.4	0.00	0.60	0.83	0.00	0.54	0.75
170.6	0.00	0.00	0.00	0.00	00.00	0.00			170.6	0.26	0.26	0.26	0.09	0.09	0.09
Lat.G-1 Cenak HG-Lat.G-1-Ext.1 Lat.G-1 211.5 Lat.G-1 172.7	0.16	0.47	0.61	0.05	0.32	0.46		×	211.5		0.29	0.60		0.26	0.54
89.8							Lat.C-2 Canal HG-LG-2A Lat.G-2A 'Lat.G-2 HG-13+ C-29	. C-2A -2A -2 -2	89.8	0.16	0.16	0.16	0.05	0.05	0.05
42.9							Lat.C-2B Lat.C-2B Lat.C-2		42.9						

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688	Command	i i		800	1	ry Se	! !
oi Keadgate	(ha)		Thu.	Sat	Non-	Yed.	Sat
Pump Station	1 6	, ,) I			1 1
Main Canal	837.6	81.4	n 0	F 0. 7	÷		
IG-Lat.B Lat.B	280	1.27	0.00	0.00	26.1	0.00	0.00
Mein HG-Lat.C	53.	œ.	αģ	200	ų.	ó	-
	1046.1	1.64	1.50	1.84	0.23	1,33	1.29
•	239.6	0.38	0.98	0.38	0.13	0,66	0.13
_	116.5	0.00	0.38	0.00	0.00	0,34	0.00
NG-Lat.F Lat.F Mein	73.5 9.4	0.15	0.22	0.15	0.05	0.12	0.05
Lat.B Canal HG-Lat.B-Ext. Lat.B-Ext.	25.4 9.5 9.6	0.12			0.18		
	1 19.8 974.9	0.09	0.00	0.00	0.14	0,00	0.00
0.0-EX		0.19	0.00	0.00	0.28	0.00	0.00
O K	3 39.5 839.4	0.18	0.00	0.00	0.27	0.00	1.29
ļ	409.4	0.28	0.84	1.12	0.03	0.94	0.84
HG-Lat.C-2 Lat.C-2 Lat.C	170.6	0.15	0.15	0.40	0.05	0.05	0.27
Lat.C-1 Canal HG-Lat.C-1-Ex Lat.Cl-Ext.1	211.5	0.00	0.27	0.60	0.00	0.40	0.54
C83-	89.8	0.15	0.15	0.30	0.05	0.00	0.18
HG-Lat.C-28 Lat.C-28		2	•	•	•		:

NT AT-HEADGATE (8/19)

Table.I-4 D	DIVERSION WATER REQUIREMENT	WATER	REQUI		AT-HEADGATE		(8/19)
8th Week		:	. !	į			
1		;	Diversion	on Regu			
Name	Command	1 3 1 1 1	Wet Season	300	i	Dry Season	i i i
ot Hendgate	Area (na)	Mon.	n. Wed.	Sat.	Mon. We	Thu.	Sat. Sun.
Pump Station	1007	0 +	5	20.2	4	2 50	2.5B
Main Canal			•	·			,
			.1		;	j	3
Lat. B	280.4	2.27	00.4	0.0°	1.92	00.00	9.00
14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-		,	;	,)
Lat. C	1046 1	2.12	1.76	2.68	1.90	1.56	2.14
Main	496.2	0.13	1,95	0.13	0.04	1.67	0.04
MG-Lat.D				,		1	•
Lat.D	256.6	0.0	0.0	0.0	000	7.0	00.0
7 ta 1 10 17	0.557	3		2			•
Lat. H	116.5	00.0	0,38	00.0		0.34	00.0
Main	123.1	0.13	0.52	0.13	0.0	0.39	0.04
HG-Lat F							
Lat F	73.5	0.11	0,28	0.11	0.04	0.13	0.04
Main	ę . 6	00.0	0,04	00.0	00.0	0.03	0.00
Lat, B Canal		-					
HG-Let. B-Ext		,			•		
Lat.B-Ext. Lat.B	25. 25. 2. 50.	0,12			0.18	٠.	
:							

CAC. CERTAL							
HG-Lat.C-Ext. I		. 1	,	1			,
Lat. C-Ext. 1	19.8	0.09	00.0	0.00	0.14	0.00	9
	974.9	1.80	1.76	2.68	۳.	1.56	2.14
C-Ext.	ca ca					1	
Let C-Ext. 2	41.1	0.19	0.00	0.00	0.28	000	0.00
	933.8	1.61	1.76	2.68	1,13	1.56	2.14
HG-Lat.C-Ext.3					:	٠.	
Lat. C-Ext. 3	39.5	0.18	0000	0.00	0.27	0,00	0.00
	839.4	***	1.76	2.68	0.48	1.56	2.14
G-Lat C-1					٠.		
Lat.C-1	409.4	0.00	0.56	1.06	00.0	0.84	1.21
Lat.C	413.4	1.11	1.20	1.61	0.37	0.72	0.93
HG-Lat. C-2							
Lat C 2	170.6	**	0.48	0.86	7	-	0.50
ואנים	147.2	6.63	0.43	0.75	0.73	99.0	0.43
							,
Lat.C-1 Canal	:						
HG-Lat.C-1-Ext	t, 1						
Lat.Cl-Ext.1	∾	:	0.27	15.0		0.40	
Lat.C-1	172.7		0.22	0.49		0.33	0.4
t. C-2 Canal	1 19					1	
HG-Lat, C-2A					3	;	
Lat.C-2A	89.8	91.0	•	4.	0.05	0.05	0.3
Lat. C-2	61.7	0.32	0.32	0.32	0.11	0.11	0 1
MG-Lat. C-2B							
Lat. C-28	42.9	0.22	0.22	0.22	0.08	0.08	0.08
Lat. C-2	0.0	00.0	00.0	00.0	0.00	00.0	0.0

(61/6)	
HEADCATE	
AT	
REQUIREMENT	
WATER	
DIVERSION	
1e.I-4	
a D	

th Week	 	ā	iversi	Diversion Requirement	rement	(m3/8)	
e)	Command		Wet Season	uos	i d	y Sea	nos
gate	Area (ha)	Mon.	Wed. Thu.	Sat.	A Aon.	Wed. Thu. Fri.	1
Pump Station Main Canal	1837.6	2.76	2.84	3.06	4.17	3,58	3,13
HG-Lat.B Lat.B Main	280.4	1.27	0.00 2.84	3.06	1.92	3.58	3.13
HG-Lat.C Lat.C Main	1046.1	1.01	1.84	2.60	1.53	1.28	2.66
HG-Lat.D Lat.D Main	256.6 239.6	٠.	0.81			1.00	
HG-Lat.E Lat.E Main	116.5		0.36			0.50	
HG-Lat.F Lat.F Main	73.5		0.24			0.21	
Lat.B Cenel HG-Lat.B-Ext Lat.B-Ext. Lat.B	22 23 29 20	0.12			0.18		
Lat.C Canal HG-Lat.C-Ext. Lat.C-Ext.1 Lat.C	1 19.8 974.9	69.0	0.00	0.00	0,14	0.00	0.00
HG-Lat.C-Ext Lat.C-Ext.2 Lat.C		0.19	0.00	0.00	0.28	0.00	0.00
HG-Lat.C-Ext Lat.C-Ext.3 Lat.C	.3 39.5 839.4	0.18	0.00	0.00	0.27	0.00	0.00
MG-Lat.C-1 Lat.C-1 Lat.C	409.4	0.00	0.56	1,05	0.00	0.84	1.33
HG-Lat.C-2 Lat.C-2 Lat.C	170.6		0.00	0.84		0.00	0.69
Lat.C-1 Canal HG-Lat.C-1-Ext.1 Lat.Cl-Ext.1 211.6 Lat.C-1 172.7	xt.1 1 211.5 172.7		0.27	0.57		0.40	0.77
Lat.C-2 Canal HG-lat.C-2A Lat.C-2A Lat.C-2	89.8			0.44			0.39
HG-Lat.C-2B Lat.C-2B Lat.C-2	42.9 0.0			0.21			0.19

Table.1-4 DIVERSION WATER REQUIREMENT AT HEADGATE (10/19)

		Δ	Vers	on Requi	reme:	(m3/8	
Name	Command	32	1 0		!		eason
Headgate		Non	7 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 :	Sat	Mon.	Yed.	Sati
: !		Tue	Fri.	Sun.	Tue.	Fri	Sun.
np Stat	0.00	96	e e			6	35
Main Canal		-		•	•		•
Late	o	~	0	٠	o.	. 0	0
	1557.2	1.27	2.79	3.03	1.91	3.90	3.35
HG-Lat.C	9 4 0		۵		ч	¢	, a
Main	496.2	0.00	1.80	00.0	0.00	2.40	00.0
MG-Lat,D	- 1					,	
Lat. D	256.6 236.6		ο c		•	1,05	
HG-Lat.E			•			•	
	116.5		0.35			0.53	
e de la compa	23		₹.		٠	'n	
י ני ני ני	•		2			5	
Main	6		0.03			0.03	
Lat.B Canal							
ω - C:	Ġ				•		
Lat.B-Ext.	2.64 2.63	0.12			0.30		
Lat.C Canal							
S S	. '			•	•		
Lat.Caext.1	0.44	900	9 6	2 00		200	2 6
HG-Lat.C-Ext.	. 63	•	•	?		,	
1	41.1	0,19	0.00	0.00	0.28	0.00	00.0
i c	933.	0.50	•	•	۲.	200	•
TOTAL CTEXT.		-	C		•	0	
Latic	839.4	0.08	0.85	200	0.11	1.28	2.85
HG-Lat.C-1					1		
Lat.C-1	409.4	000	0.56	1.05	000	∞ •	e e
LAC. C	5	•	7		?	4	
9	70.		٥.	00		0	
Lat.C	147.2		00.0	0.71		00.0	0.71
Lat.C-1 Canal				ī			
HG-Lat.C-1-Ext.							•
Lat.C1-Ext.1	211.5		220	0.57		0.4.0	0.56
Lat.C-2 Conni	3					?	:
HG-Lat.C-2A							
Lat.C-2A	00 t			6,43			7.4.0
HG-Lat, C-2B	•			}			
4							

Table.1-4 DIVERSION WATER REQUIREMENT AT HEADGATE (11/19)

		Ω	vergi	on Requ	Requirement	(m3/8	,
e e	Command) 3±	t Sep	. E		ry Se	1
ol Readgate	Area (ha)	Mon, Tue,	Yed Thu.	1 2 5	Mon.	1 3 € LL 1	1 10 3
Pump Station	1837.6	2.76	2,76	2,96	4.17	4.12	3.85
Main Canal HG-Lat.B			;				
Lat.B Main	280.4	1.27	0.00	0.00 2,96	1,92	0.00	3.85
G-bat.c tat.c Main	1046.1	1.01	0.85	2.52	1.53	1.28	3.28
HG-Lat.D Lat.D Main	256.6		0.78			1.17	
HG-Lat.E Lat.E Main	116.5		0.35			0.53	
HG-Lat.F Lat.F Main	73.5		0.23			0.30	
Lat.B Canal HG-Lat.B-Ext. Lat.B-Ext. Lat.B	27 4 20 60 20 60	0.12			0.18		•
Lat.C Canal HG-Lat.C-Ext. Lat.C-Ext.1 Lat.C	19.8 974.9	0.09	0.00	0.00	0.14	0.00	3.28
HG-Lat.C-Ext. Lat.C-Ext.2 Lat.C	2 41.1 933.8	0.19	0.00	2.52	0.28	0.00	3.28
HG-Lat.C-Ext. Lat.C-Ext.3 Lat.C	3 39.5 839.4	0.18	0.00	0.00	0.27	0.00	3.28
	409.4	0.00	0.56	1.02	0.00	0.84	1.54
HG-Lat.C-Z Lat.C-Z Lat.C	147.2		0.00	0.80		0.00	0.80
Lat.C-1 Canal HG-Lat.C-1-Ext. Lat.C1-Ext.1 2 Lat.C-1	t.1 211.5 172.7		0.27	0.56 0.46		0.40	0.85 0.69
Lat.C-2 Canal HC-Lat.C-2A Lat.C-2A Lat.C-2	89.8			0.42			0.54
G-Lat.C-28 Lat.C-28 Lat.C-2	42.9			0.21			0.00

Table.1-4 DIVERSION WATER REQUIREMENT AT HEADGATE (12/19)

		B	versi	O.	ü	3/	
ಶ	Command	! 3: !	t Sea	1 4	ł	N.	, E
of adgat	Area (ha)	Mon. Tue.	Wed. Thu. Fri.	1 60 3	Mon.	Yed. Thu. Fri.	
Pump Station	1837.6	2.76	2,76	80	4.17	4.16	4.36
Main Canal	• •	•		:		•	
Lat.B	280.4	1.27	0.00	00.0	1.92	00.0	0.00
د	57	ď	•	۰.	o,	•	•
٠ .	1046.1	1,01	0.85	2.46	1.53	1.28	3.71
HG-Lat.D		•		<u> </u>	•	,	•
	239.6		0.85			1.28	
HG-Lat.8 Lat.8	116.5					0,53	
Main HG-Lat.F	9		•			•	
Lat.F Main	73.5		0.22			0.34	
Lat. B Canal							
HG-Lat.B-Ext. Lat.B-Ext. Lat.B	25.9 43.3	0.12			0.18		
Lat.C Canal							
t.C-Ex			;				
Lat.C-Ext.1 Lat.C	974.9	0.09	0.00	2.48	1.04	1.28	3.71
HG-Lat.C-Ext.			ć				
Lat.C	933.8	0.50	0.85	2.48	0.76	128	3.7
HG-Lat G-Ext.	m	0.18	0.00	00.00	0.27	00.0	0.00
Lat.C	o,				~	1.23	
٠.	409.4	00.00	0.56	1.02	0.00	0.84	1.54
Lat.C	33	•	٥.	4	•	0.44	~
20	170.6		0.00	0.77		00.00	1.17
							:
L&t.C-1 Canel HG-Lat.C-1-Ext.	, - 4						
Lat.Cl-Ext.1	211.5		0.27	0.56		0.40	0.85
Lat.C-2 Canel	4		•	•		•	?
Lat.C-2A	89.8		.*	0.41			0.67
HG-Lat.C-2B	:						
LAT. C-ZE				,			

Table, 1-4 DIVERSION WATER REQUIREMENT AT HEADGATE (13/19)

Mon. Wed. Sat. Thu. Thu.

Mon. Wed. Sat. Thu. Thu. Sun.

0.45 4.16 4.36

2.89

1837.6 0.30 2.76

1.28

0.38

2.46

0.85

0.78

0.35

0.00

0.00

0.00

0.00

Diversion Requirement (m3/s)

Diversion bry Season

Table.1-4 DIVERSION WATER REQUIREMENT AT HEADGATE (14/19)

	٠	Ä	iversi	Diversion Requirement (m3/s)	ىد	(m3/s)			i 	
	Command	ž	Wet Season	Wet Season	10	Dry Season	1111100	Name	Command	***
Hendgate	(ha)	M co	Ted.	on. Wed. Sat.	Hon	Hon. Wed.	Sat	of Readgate	Area (he)	Non
	- 1 - 1	Tue.	- ;	Sun.	Tue.	Fri	Sun.			Tue.
<u>د</u>	1837.6	1.56	2.76	2.89	2.36	4.16	4.36	Pump Station	2 500	6
Main Canal HG-Lat.B								Main Canal	0.1501	
Lat. B Main	280.4	0.72	2.76	2.89	1.09	4.16	0.00 4.36	Lat.B Main	280.4	0.00
HG-Cat.C Lat.C	1046.1	0.61	0.85	2,46	0.92	1.28	3.71	HG-Lat.C	1046	
	496.2	0.00	1.76	00.0	0.00	2.66	00.0	Cann.	498.2	0.00
Lat.D Main	256.6		0.78			1.17		HG-Lat.D Lat.D	256.6	
HG-Lat.E	116.5		0.35			0,53		HG-Lat.E	0.607	
Main	123.1		0.44			99.0		Main	123.1	
Lat.F Main	73.5		0.22			0.34		HG-Lat.F Cat.R Main	73.5	
Lat.B Canal								Let.B Canal		
Lat.B-Ext. Lat.B-Ext.	25.9	0.12			0.18			MG-Dat.B-Ext. Lat.B-Ext.	t. 25.9	
Lat. C Canal						-		187.83 187.83		
HG-Lat.C-Ext.1	1000	6	90	0	0	000	0.00	HG-Lat.C-Ext.1		
LAC. C. T. C.	974.9	0.61	0.85	2.46	0.93	1.28	3.71	Lat.C-Ext.1 Lat.C	9.8	0.00
Lat.C-Ext. 2	41.1	0.19	0.00	00.00	0.28	0.00	0.00	HG-Cat.C-Ext.2 Lat.C-Ext.2	t.2 2 41.1	0.00
Lat.C HG-Lat.C-Ext.3	3 2 63 . 0	. 42	0	o *	40.0	07:1		1,987.0 20.1987.0 20.1987.0	933.8	
Lat.C-Ext.3 Lat.C	39.5	0.18	0,00	0.00 2.46	0.27	0.00	3.71	Lat. C-Ext. 3	3 39.5	0.18
MG-Lat.C-1		ć	4	ŝ	ć	9	7 7	HG-Lat.C-1	h C	5
Lat.Cal	413,4	00.00	0.29	1.4	00.0	. 4	2,17	Lat.C-1	409.4	000
Lat.C-2	170.6		0.00	0.77		0.00	1.17	HG-Lat.C-2 Lat.C-2 Lat.C	170.6	
Lat.C-1 Canal HG-Lat.C-1-Ext.1	, , ,		•	•		;	•	Lat.C-1 Canal HG-Lat.C-1-Ext.1	il Ext.1	
P-4	172.7		0.27	0.56		0.33	0.69	Lat.C1-Ext.1 211.5 Lat.C-1 172.7	172.7	
Lat.C-2 Canal								Lat.C-2 Canal HG-Lat.C-2A		
Lat, C-2A Lat, C-2	89.8			0.41			0.61	Lat.C-2A Lat.C-2	89.8	
HG-Lat.C-2B Lat.C-2B	87			61.0			0.29	HG-Lat, C-2B Lat, C-2B		
1.81 . 0.12										

0.29

0.19

0.61

0.41

0.40

0.56

0.27

3.71

0.00

0.27

0.00

0.00

0.84

0.00

1.02

0.56

0.00

0.77

0.00

1.28

0.00

0.00

0.00

0.00

(15/19)
HEADGATE
ΑT
REQUIREMENT
WATER
DIVERSION
Table.I-4

	1	Dive	Diversion Requi	quirement	ent (m)	(m3/8)	5 0 1		; ; ;)id	Diversion Requirement	Requir	rement	(m3/B)	
£1	24	ļ	Wet Season		Dry. 8	8	1	Name	Command	1	Wet Season	i .	į	Dry Season	60
oi Readgate	_	Mon. H	on. Wed. Spt. Thu. ue. Fri. Sun.	!	1 c •	Wed. S Thu.	Sun.	Headgate	Area (ha)		Wed. Thu. Fri.	Sat.		Wed. Thu. Fri.	Sat.
!	837.6	0.00 2.	2.10 2.89	00.00	00 3.17	4	36.	Pump Station	1837.6	0.00	1.80 2	2.14	0,00	2.72	3.24
Main Canal HG-Lat.B Lat.B Main						0.4	 36.	Mein Canal AG-Lat, B Lat, B Main	280.4 1557.2	- '	000	0.00		0.00	0.00
ω	1046,1			·	0.44		3,71 0.00	HG-Lat.C Lat.C Main	1046.1			1.83		2.66	2.76
	256.6	.00	0.78		##	.17		HG-Lat.D Lat.D Main	256.6 239.6		0.78			1.17	
HG-Let.E Lat.E Main	116.5	99	0.35		0.53	63 63		HG-Lat.E Lat.E Main	116,5	~ ~	0.35			0.53	
HG-Lat.F Lat.F Main	73.5	60	0.22		0.34	34 05		HG-Lat.F Lat.F Main	73.5	- •	0.22			0.34	
Lat.B Canal HG-Lat.B-Ext. Lat.B-Ext.	43.9 43.9							Lat.B Canal HG-Lat.B-Ext Lat.B-Ext. Lat.B	25. 25. 26.						
Lat.C Cenal HG-Let.C-Ext.1 Lat.G-Ext.1 Lat.C	19.8 974.9		0.00 0.00		0.00		0,00 3,71	Lat.C Canal HG-Lat.C-Ext.1 Lat.C-Ext.1 Lat.C	19.8		0.00 0	0.00		0.00	0.00
	2 41.1 933.8	ÓÓ	0.00 0.00		0.00		3.71	HG-Lat.G-Ext Lat.G-Ext.2 Lat.G	933.8	_ •	0.00 0	1.83		0.00	0.00
3,4	3 39.5 839.4	00	0.00 0.00	~ ~	0.00		3.71	HG-Lat.C-Ext. Lat.C-Ext.3 Lat.C	39.5 839.4		0.00 0	0.00		0.00	0.00
MG-Lat.C-1 Lat.C-1 Lat.C	409.4	50	0.00 1.02	. A:	0.00	~ 0	47.	HO-Lat.C-1 Lat.C-1 Lat.C	409.4		0.00 0	. 39		0.00	0.58
HG-Lat.C-2 Lat.C-2 Lat.C	170.6	00	0.00 0.17	m	0.00		1.17	HG-Lat.C-2 Lat.C-2 Lat.C	170.6	. :	0.00.0	0.77		000	1.17
Lat.C-1 Canal HG-Lat.C-1-Ext.1 Lat.C1-Ext.1 211.5 Lat.C-1	211.5		0.56	·		00	0.85 0.69	Lat.C-1 Canal HG-Lat.C-1-Ext. Lat.C1 Ext. 1 Lat.C-1	5xt.1 .1 211.5 .172.7		• •	0.14			0.21
Lat.C-2 Canal HG-Lat.C-2A Lat.C-2A Lat.C-2	89.88 7.18		0.41			00	0.61	lat.C-2 Canal HG-Lat.C-2A Lat.C-2A Lat.G-2	89.8	:		28			0.61
HG-Lat.C-2B Lat.C-2B	42.9		0.19	_		0	0.29	HG-Lat.C-2B Lat.C-2B	42.9		0	61.0			0.29

Table.1-4 DIVERSION WATER REQUIREMENT AT HEADGATE (17/19)

Table.1-4 DIVERSION WATER REQUIREMENT AT HEADGATE (18/19)

			versic	Diversion Requirement (m3/s)	rement	(m3/8				Diver	sion Requ	Diversion Requirement (m3/8)	
<i>a</i> ,	Command	1 3	Wet Season	eason		Dry Season	1111100	Name Services	Command	Wet S	Wet Season	Dry Season	raon.
r B C C	(ha)	Mon Tue	Mon. Wed. Sat The. Fri. Sun	Sat.	Mon. Tue.	Wed. Thu.	ļ.	Неадкасе	(ha)		Wed. Sat. Thu. Fri. Sun.		
Pump Station 1	1837.6	00.00	1.07	1:98	00.0	1.62	86.	uo 1	1837.6	0.00 0.47	-	6	2.37
M	280.4		0.00	0.00		0.00	2.98	HG-Lat.B Lat.B Main HG-Lat.C	280.4	0.00	0 0 00	0.00	0.00
	1046.1		1.07	1.68		0.00	2.54		1046.1	0.00	7 0.00	0.00	2.02
	256.6		0.46			0.69		tat.D Mat.D Main	256.6 239.6	0.22	2 =	0.33	
٠	116.5		0.08			0.12		Lat. S Lat. S Mai. S	116.5	0.00	0 1	0.00	
nd-tat.F Lat.F Main	73.5		0.22			0.34		1.0 t.F 1.0 t.F Main	73.5	0.15	ស់ដ	0.22	
Lat.B Canal HG-Lat.B-Ext. Lat.B-Ext.	25.9 43.3							Lat.B Canal HG-Lat.B-Ext. Lat.B-Ext. Lat.B	25.9 43.3				
Lat.C Canal HG-Lat.C-Ext.1							•	Lat.C Ganal HG-Lat.C-Ext.1	, , ,		6		
Lat.C~Ext.1 Lat.C	19.8 974.9			1.68			2.54	Lat.C-Ext.1	974,9		1.34		2.02
HG-Lat.C-Ext.Z Lat.C-Ext.2 Lat.C	41.1 933.8			0.00			0.00	Lat.O-Ext.2	933.8		0.00		0.00
HG-Lat.C-Ext.3 Lat.C-Ext.3 Lat.C	83 92.5			0.00			0.00	Holoatic-Ext. Lat.O-Ext.3 Lat.O-Ext.3	39.5		0,00		2.02
hG-Lat.C-1 Lat.C-1 Lat.C	409.4			0.24			0.37	Lat.O.1 Lat.O.1	409.4		1.09		0.37
HG-Lat.C-2 Lat.C-2 Lat.C	170.6			0.77			1.17	101.012 Lat.0-2 Lat.0	170.6		0.55		0.83
Lat.C- Canal HG-Lat.C- -Ext.1 Lat.Cl-Ext.1 21 Lat.C-1	211.5			0.00			0.00	2.74	211.5 172.7		0.00		0.00
Lat.C-2 Canal HG-Lat.C-2A Lat.C-2A Lat.C-2	89.8			0.41			0.61	Lat.C-2 Canal #G-Lat.C-2A Lat.C-2A Lat.C-2	89.8		0.27		0.41
HG-Lat.C-28 Lat.C-28	42.9			0.19			0.29	12 to 1.0	42.9		0.19		0.29

Table.1-4 DIVERSION WATER REQUIREMENT AT HEADGATE (19/19)

24th Week (1/2)

					irement		
Name of	Command Area	W	et Sea	son		ry Sea	son
Headgate	(ha)	Mon. Tue.	Wed. Thu. Fri.	Sat.		Wed. Thu. Fri.	Sat. Sun.
Pump Station						- -	~~~ ~~
. amp ood or on	1837.6	0.00	0.08	0.93	0.00	0.11	1.40
Main Canal							
HG-Lat.B	000 1		0 00	0.00			0.00
Lat.B	280.4		0.00	0.00 0.93		0.00	0.00
Main	1557.2		0.08	0.93		0.11	1.40
HG-Lat.C Lat.C	1046.1		0.00	0.79		0.00	1.19
Main	496.2		0.08	0.00		0.11	0.00
HG-Lat.D	,						
Lat.D	256.6		0.00			0.00	
Main	239.6		0.08			0.11	
HG-Lat.E							
Lat.E	116.5		0.00			0.00	
Main	123.1		0.08			0.11	
HG-Lat F	72 6		0.06			0.10	
Lat.F Main	73.5 9.4		$0.06 \\ 0.00$			0.10	
HG-Lat.B-Ext Lat.B-Ext. Lat.B	25.9 43.3						
HG-Lat.C-Ext Lat.C-Ext.1	19,8			0.00			0.00
Lat.C	974.9			0.79			$0.00 \\ 1.19$
HG-Lat.C-Ext				V113			1.23
Lat.C-Ext.2				0.00			0.00
Lat.C	933.8			0.79			1.19
HG-Lat.C-Ext							
Lat.C-Ext.3				0.00			0.00
Lat.C	839.4			0.79			1.19
HG-Lat.C-1 Lat.C-1	409.4			0.00			0.00
Lat.C	413.4			0.79			1.19
HG-Lat.C-2							
Lat.C-2	170.6			0.41			0.63
Lat.C	147.2			0.38			0.57
Lat.C-1 Canal HG-Lat.C-1-E Lat.C1-Ext. Lat.C-1	xt.1 1 211.5 172.7						
Lat.C-2 Canal			,				
HG-Lat.C-2A	ga o			0 14			0 00
Lat.C-2A Lat.C-2	89.8 61.7		44	0.14 0.28			0.20
HG-Lat.C-2B	01.1		+ .	0.20		÷	0.42
Lat.C-2B	42.9		5	0.19			0.29
Lat.C-2	0.0		•	0.00	:		0.00

Note. All the above diversion requirements at respective headgates from 1st week to 24th week are those for 17 hours/day pump operation.