

SRISAILAM RIGHT BRANCH CANAL

(KM 38.000 TO KM 50.910)

PACKAGE - VI

44

CONSTRUCTION METHODOLOGY

A N D

MILESTONES CONSTRUCTION PROGRAMME

PRASAD & COMPANY (PROJECT WORKS) LIMITED,  
6-3-871, 'SNEHALATA',  
GREENLANDS ROAD, BEGUMPET,  
HYDERABAD - 500 016  
Phone Nos. : 213687.

GENERAL OUT LINE

METHODOLOGY

1

MILESTONES CONSTRUCTION

PROGRAMME

2

PLANT & EQUIPMENT

3

TECHNICAL PERSONNEL

4

'S' CURVES FOR EARTHWORK

STRUCTURES & FINANCIAL

5

SRISAILAM RIGHT BRANCH CANAL PACKAGE VI

KM 38.00 TO KM 50.91

General Out Line Methodology, Milestones

Construction Programme

Equipment and Personnel

The work of Srisailam Right Branch Canal from KM 38.00 to KM 50.91 (Package VI) contains the following main items:

1. Excavation in all soils upto H.D.R.	1,24,328 Cu.m.
2. Excavation in Hard Rock (Highly abressive)	20,66,804 Cu.m.
3. Embankment	1,67,300 Cu.m.
4. Construction of Cement Concrete Side walls	1,19,000 Cu.m.
5. Structures(12 Nos. involving Cement Concrete)	1,21,240 Cu.m.

The period of completion is 36 months and it has been requested to take the period of starting from May, 1993. The quantity of Hard Rock is 20,66,804 Cu.m. which is highly abressive and a difficult work as such it is programmed to start the excavation work from the month of June, 1993 itself. As some time is required for Mobilisation of Men and machinery, to suit this the programme for Mile Stones are drawn and enclosed. (AnnexureA). To achieve this, it is programmed to do a quantity of 4.20 Lakh Cu.m. of excavation and 10,000 Cu.m. of concrete for the Structures in the 1st Quarter of 9 months from May, 1993 to end of January, 1994. During this quarter it is proposed to take up three structures also.

In the Second Quarter starting from February, 1994 and ending October, 1994 excavation in Hard Rock for a quantity of 8.81 Lakh Cu.m. and embankment for a quantity of 1.67 lakh Cu.m. and side wall concrete of 0.29 Lakh Cu.m. and 2.58 thousands Cu.m. of Masonry and 38.14 thousand Cu.m. of concrete for structures is proposed.

In the Third Quarter starting from November, 1994 and ending July, 1995 it is proposed to excavate a quantity of 7.23 Lakh Cu.m. and do 0.48 Lakh Cu.m. of concrete for side walls and 3.21 thousand Cu.m. of masonry and 35.03 thousand Cu.m. of concrete for the structures.

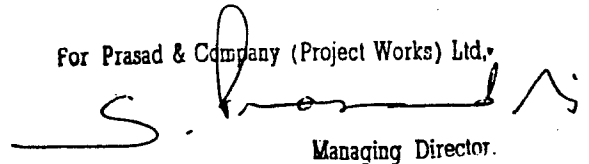
In the last and fourth Quarter of August, 1995 to April 1996 the remaining quantity of earth work i.e., 1.82 lakh Cu.m. is proposed to be done together with a quantity of 0.42 lakh Cu.m. of concrete for side walls and 38.09 thousand Cu.m. of Concrete for structures.

The requirement of Plant and equipment is enclosed (Annexure C) with detailed calculation. 8 Nos. of Excavators (Poclains) are required for excavation of maximum quantity of 1,45,000 Cu.m. in a month where as we are already having 8 Excavators (Poclains). For concreting we are having one Batching Plant and 3 Transit Mixers with a capacity of 25 Cu.m./hour and 15 Nos. of 10/7 C.ft. Concrete mixers with swing weigh batching which are more than sufficient for doing 700 Cu.m./day of concrete but we want to keep these weigh batchers, Concrete Mixers as stand by and procure one more Batching Plant of 25 cu.m./hour capacity with 3 Nos. of 4 Cu.m. Transit Mixers and two Nos. of Placers for placing the concrete for side walls from the Transit Mixers.

A detailed programme for physical completion with approximate quantities in Annexure 'A', monthly programme to suit the above in Annexure 'B' and requirement of Plant & Equipment with details in Annexure 'C' together with S curve are herein enclosed.

For Prasad & Company (Project Works) Ltd.

- 11 -



Managing Director.

## REQUIREMENT OF CONSTRUCTION EQUIPMENT

### 1. EARTH WORK

#### a) Excavators:

On Excavator (Poclain) working for 16 hours in a day can make 15 trips of 3 Cu.m. each.

That is  $16 \times 15 \times 3 = 720$  Cu.m./day.

Taking 25 days in a month  $25 \times 720 = 18,000$  Cu.m./month.

1st Quarter maximum quantity is 1,00,000 Cu.m./month.

No. of Excavators (Poclains) required =  $1,00,000/18,000 = 5.55$  say 6 Nos

2nd Quarter maximum quantity is 1,45,000 Cu.m./month.

No. of Excavators (Poclains) required =  $1,45,000/18,000 = 8.05$  say 8 Nos.

3rd Quarter maximum quantity is 1,00,000 Cu.m./month.

No. of Excavators (poclains) required =  $1,00,000/18,000 = 5.55$  say 6 Nos.

4th Quarter maximum quantity is 1,21,000 Cu.m./month.

No. of Excavators (Poclains) required =  $1,21,000/18,000 = 6.7$  say 7 Nos.

Maximum no. of Excavators (Poclains) required are 8 Nos.

#### b) Rigs:

Maximum Quantity of Rock Excavation in a month is

$1,25,000$  cu.m. i.e.,  $1,25,000/25 = 5,000$  Cu.m./day.

Taking yield of 3 Cu.m./mt.

Total length of Drilling is  $5,000/3 = 1,666$

or Say = 1,700 mts.

One Rig can drill 5 Mt./hour

taking 16 hours working in a day

Number of Wagon Drills required is  $1700/5 \times 16 = 21.25$

or say = 22 Nos.

Keeping 4 Nos. as stand by

Total required is 23 Nos.

Contd....2..

c) Compressors:

3 Electrical Compressors of 600 Cfm.  $3 \times 2 = 6$   
11 CPT 450 Cfm.  $11 \times 1 = 11$   
4 Atlas Capco 300 Cfm.  $4 \times 1 = 4$   
1 CPT 450 Cfm. as stand by

Total 19 Nos.

d) Jack Hammers 20 Nos.

e) Tractors 2 Nos.

f) D.R.Rs 2 Nos.

2) CONCRETE:

a) AGGREGATE:

Side Wall 1,19,000

Structure 1,21,240

Total 2,40,240

Required  $0.92 \times 2,40,240 = 2,21,020.8$

or say = 2,22,000 Cu.m.

Available period = 30 months.

taking 20 days/month requirement per day

$\frac{2,22,000}{30 \times 20} = 370 \text{ Cu.m.}$

or say 400 cum./day.

One Number Crushing Plant available

can give 20 cu.m/hour working 14 Hours/day.

$20 \times 14 = 280 \text{ Cu.m.}$

3 Nos. Sayaji Crushers

$3 \times 50 = 150 \text{ Cu.m.}$

Total = 430 Cu.m.

b) Sand:

Total quantity of Concrete	2,40,240
Total Quantity of Masonry	5,790
Total Quantity	<u>2,46,030</u>

Total requirement of Sand @ 50% of the quantity is 1,23,000 Cu.m.

Requirement of sand in 1st Quarter is 50% of 10,000 i.e.	5,000
Requirement of sand in 2nd Quarter is 50% of 69,720 i.e.	35,000
Requirement of sand in 3rd Quarter is 50% of 86,240 i.e.	43,000
Requirement of sand in 4th quarter is 50% of 80,070 i.e.	40,000

Total Quantity Requirement of sand 1,23,000

Total no. of Trucks available is 45 Nos.

Proposed to be procured is 15 Nos.

Total No. of Trucks is (45 + 15) = 60 Nos.

In the first quarter 15 Trucks are available for sand. Each truck at 5 Cu.m./trip and 2 trips in a day. i.e.  $15 \times 5 \times 2 = 150$  Cu.m./day.

Period available 5 months @ 25 days per month is  $5 \times 25 \times 150 = 18,750$  Cu.m.

2nd Quarter 20 Trucks @ 5 Cu.m./trip and 2 trips per day is 200 Cu.m./day.

Period available 7 months @ 25 days/month is  $7 \times 25 \times 200 = 35,000$  Cu.m.

Total quantity of sand at the end of 2nd quarter is 53,750 against requirement of 40,000 Cu.m. Balance quantity of sand is 13,750 Cu.m.

3rd Quarter 20 trips @ 5 Cu.m./trip and 2 trips/day is 200 cu.m/day.

Period available 7 months @ 25 days/month is  $7 \times 25 \times 200 = 35,000$  Cu.m.

Total quantity of sand at the end of 3rd Quarter is 48,750 Cu.m. against the requirement of the 3rd Quarter is 43,000 Cu.m. Balance Quantity is 5,750 Cu.m.

4th Quarter 20 trucks @ 5Cu.m./day and 2 trips per day is 200 Cu.m/day.

Period available 7 months @ 25 days/month is  $7 \times 25 \times 200 = 35,000$  Cu.m.

Availability of sand at the end of 4th Quarter is 40,750 against the requirement of 40,000 Cu.m.

c) Cement:

Total Requirement 42,500 Tonnes

Procuring at the rate of 2000 T/Month and working for 25 days per month

Requirement per day =  $2000/25 = 80$  Tons/day  
i.e. 4 Trucks are required.

d) Concreting the side Walls etc.:

Maximum Concreting to be done in a month is 14,000 Cu.m.  
Taking 20 days in a month  $14000/20 = 700$  Cu.m./day

One Batching Plant 25 Cu.m./hour with 3 Transit Mixers of 4 Cu.m. Capacity working for 16 hours can do 400 Cu.m./day.

Requirement is Two batching Plant of 25 Cu.m./hour capacity and 6 Transit Mixers of 4 Cu.m. capacity.

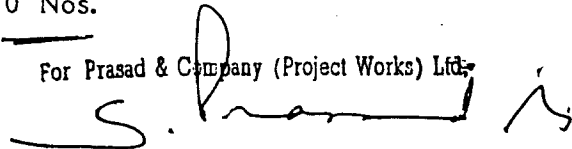
And Two Placers for placing the Concrete besides the above it is proposed to keep 15 Nos. of 10/7 Cft. Concrete Mixers with swing weigh batchers for Concrete and Mortar as stand by.

e) Total No. of Tipper/Trucks of 10 Tons:

	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Excavation	25	40	30	20
Steel	15	20	20	20
Cement	4	4	4	4
Miscellaneous & Stand by	6	6	6	6
	<hr/>	<hr/>	<hr/>	<hr/>
	50	70	60	50
	<hr/>	<hr/>	<hr/>	<hr/>

Maximum No. of Trucks/Tipper required are 70 Nos.

For Prasad & Company (Project Works) Ltd.

  
Managing Director.



PRASAD & COMPANY (PROJECT WORKS) LIMITED

"1st Quarter"

MONTHLY PROGRAMME FOR THE WORK OF S.R.B.C. PACKAGE - VI

Sl. No.	Description	Quantity	May, '93	June '93	July '93	Aug, '93	Sept. '93	Oct., '93	Nov., '93	Dec., '94	Jan., '94	Total Qty. Balance in the Quarter	Re marks
01.	<b>Earthwork</b>												
	a) Excavation	22.06 lakh M <sup>3</sup>	Nil	0.25	0.25	0.25	0.25	0.70	0.75	0.75	1.00	4.20	17.86
	b) Embankment	1.67 lakh M <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.67
	c) Sidewall Concrete	119.00 Th. M <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	119.00
02.	<b>Structures</b>												
	a) Concrete	121.00 Th. M <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	2.00	2.50	2.50	3.00	10.00	111.00
	b) Masonry	5.79 Th.M <sup>3</sup>	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	5.79

For Prasad & Company (Project Works) Ltd.

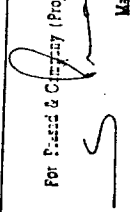
Managing Director.

CRASAD & COMPANY (PROJECT WORKS) LTD.

"2nd Quarter"

MONTHLY PROGRAMME FOR THE WORK OF S.R.B.C. PACKAGE VI

Sl. No.	Description	Balance Qty.	Feb., '94	Mar., '94	Apr., '94	Total qty Feb.-Apr. '94	May, '94	June, '94	July, '94	Total qty May - July	Aug. '94	Sept. '94	Oct., '94	Total Aug. - Oct.	Total qty in the Quarter	Balance Quantity
01.	Earthwork:															
	a) Excavation	17.86 lakh M <sup>3</sup>	1.20	1.25	1.25	3.70	1.25	1.25	1.00	3.50	0.30	0.30	1.00	1.60	8.80	9.06
	b) Embankment	1.67 lakh M <sup>3</sup>	0.25	0.20	0.20	0.65	0.20	0.20	0.20	0.60	0.10	0.10	0.22	0.42	1.67	Nil
	c) Sidewall concrete	119.00 Th. M <sup>3</sup>	3.00	5.00	5.00	13.00	5.00	5.00	3.00	13.00	-	-	3.00	3.00	29.00	90.00
02.	Structures:															
	a) Concrete	111.00 Th.M <sup>3</sup>	5.50	6.50	6.50	18.50	6.50	6.00	3.50	16.00	-	-	3.50	3.50	38.00	73.00
	b) Masonry	5.79 Th.M <sup>3</sup>	0.50	0.50	0.50	1.50	0.50	0.25	-	0.75	-	-	0.33	0.33	2.58	3.21

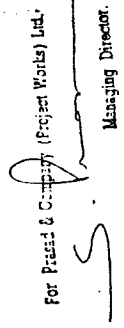
For Crasad & Company (Project Works) Ltd.  
  
 Managing Director.

PRASAD & COMPANY (PROJECT WORKS) LTD.

"3rd Quarter"

MONTHLY PROGRAMME FOR THE WORK OF S.R.B.C. PACKAGE - VI

Sl. No.	Description	Balance Quantity	Nov., 1954	Dec. 1954	Jan., 1955	Total qty Nov.-Jan. 1955	Feb., 1955	Mar., 1955	Apr., 1955	Total Qty. Feb.-Apr. 1955	May, 1955	June, 1955	July, 1955	Total qty Total of the Quarter	Balance Quantity
01.	Earthwork:														
	a) Excavation	9.06 Lakh M <sup>3</sup>	1.00	1.00	1.00	3.00	1.00	1.00	1.00	3.00	0.75	0.25	0.25	7.25	1.81
	b) Embankment	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	c) Sidewall concrete	90.00 Th.M <sup>3</sup>	5.00	6.00	6.00	17.00	6.00	6.00	6.00	18.00	6.00	4.50	250	48.00	42.00
02.	Structures:														
	a) Concrete	73.00 Th.M <sup>3</sup>	4.00	4.00	4.00	12.00	4.00	4.00	4.00	12.00	4.00	4.00	3.00	35.00	38.00
	b) Masonry	3.21 Th.M <sup>3</sup>	0.50	0.50	0.50	1.50	0.50	0.50	0.50	1.50	0.21	Nil	Nil	3.21	Nil

For Prasad & Company (Project Works) Ltd.  
  
 Managing Director.

PRASAD & COMPANY (PROJECT WORKS) LTD.

"4th Quarter"

MONTHLY PROGRAMME FOR THE WORK OF S.R.B.C. PACKAGE - VI

Sl. No.	Description	Balance Quantity	Aug., '95	Sept. '95	Oct., '95	Total qty Aug.-Oct.	Nov., '95	Dec., '95	Jan., '96	Total qty. Nov.-Jan.	Feb., '96	Mar., '96	Apr., '96	Total qty Feb.-Apr.	Total qty in the Quarter	Balance quantity
<b>01. Earthwork</b>																
a)	Excavation	1.81 Lakh M <sup>3</sup>	0.30	0.30	1.21	1.81	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	1.81	Nil
b)	Embankment	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
c)	Sidewall concrete	42.00 Th.M <sup>3</sup>	-	-	4.00	4.00	6.50	6.50	6.50	19.50	6.50	6.00	6.00	18.50	42.00	Nil
<b>02. Structures:</b>																
a)	Concrete	38.00 Th.M <sup>3</sup>	-	-	4.00	4.00	6.00	6.00	6.00	18.00	6.00	5.00	5.00	16.00	38.00	Nil
b)	Masonry	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

For Prasad & Company (Project Works) Ltd.

Managing Director.

REQUIREMENT AND DEPLOYMENT OF PLANT & EQUIPMENT

Sl.No.	Name of Equipment	Required	Available	To be procured	Deployment
01.	Excavators (Poclains)	8	8	Nil	2 Nos. from May, 1993 3 Nos. from September, 1993 8 Nos. from February, 1994.
02.	Tipper 10 Tons Capacity	70	45	25	15 Nos. from May, 1993 50 Nos. from September, 1993 70 Nos. from February, 1994.
03.	Wagon Drills	23	10	13	10 Nos. from May, 1993 23 Nos. from September, 1993.
04.	Compressors: a) 3 Nos. Electrical Compressors of 600 Cfm 3 X 2 = 6 b) 11 Nos. CPT 450 Cfm. 11 X 1 = 11 c) 4 Nos. Atlas Capco 300 Cfm. 4 X 1 = 4 d) 1 No. C.P.T. 450 Cfm. on stand by	3	3	Nil	3 Nos. from May, 1993 4 Nos. from May, 1993 11 Nos. from July, 1993 3 Nos. from July, 1993 4 Nos. from July, 1993 1 No. from July, 1993
05.	Tractor drawn sheep Foot Roller	1	1	Nil	As and when required
06.	D.R.Rs 8/10 T	2	2	Nil	As and when required
07.	Dozer 105 H.P.	1	1	Nil	As and when required
08.	Water Sprinklers/Tankers	3	3	Nil	As and when required
09.	Jack Hammers	20	20	Nil	As and when required
10.	Pumps 5HP/10 HP	20	25	Nil	As and when required
11.	Batching Plant of 25 Cu.m./hour	2	1	1	1 No. from February, 1994 2 Nos. from January, 1995.
12.	Transit Mixers of 4 Cu.m.	6	3	3	3 Nos. from February, 1994 6 Nos. from January, 1995.
13.	Placers	2	Nil	2	As and when required
14.	Vibrators	20	20	Nil	As and when required
15.	Diesel Generating Sets	2	3	Nil	As and when required
16.	Crusher for aggregate	4	4	Nil	As and when required
17.	Concrete Mixers 10/7 Cft. Capacity	Nil	15	Nil	As and when required.

For PRASAD &amp; COMPANY (P W) LTD

Managing Director.

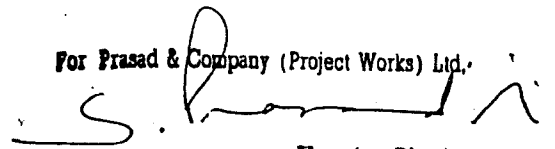
PRASAD & CO. (PROJECT WORKS) LIMITED.

PLANT AND EQUIPMENT ON HAND

Give details of plant and equipment owned  
will be used for the work in the following proforma.

1. Name of equipment : Poclains
2. Number of Units (Give details  
whether New or Old) : 8 Nos. 6 Nos. - New  
2 Nos. - Old
3. Make of equipment : L & T, 90 CK
4. Capacity : 1 Cu.m.
5. Normal life specified by the  
manufacturer in working  
hours (Age and condition of  
the equipment) : 15,000 hrs.
6. Number of actual working  
hours put in by the machine : 6 Nos. - New. 2 Nos. - 9,000 hrs.
7. Present Location : Nandyal, A.P.
8. Present condition : In good working condition.
9. Depreciated cost : Rs.227.68 lakhs.
10. Remarks :

For Prasad & Company (Project Works) Ltd.



Managing Director.

PRASAD & CO. (PROJECT WORKS) LIMITED.

PLANT AND EQUIPMENT ON HAND

Give details of plant and equipment owned  
will be used for the work in the following proforma.

1. Name of equipment : Lorries & Tippers
2. Number of Units (Give details  
whether New or Old) : 24 Nos. 64 Nos. - Old  
29 Nos. - New
3. Make of equipment : Ashok Leyland & TATA Benz
4. Capacity : 10 Tons
5. Normal life specified by the  
manufacturer in working  
hours (Age and condition of  
the equipment) : 2,00,000 Kms.
6. Number of actual working  
hours put in by the machine : 29 Nos. - New  
64 Nos. - 80,000 to 1,10,000 Kms.
7. Present Location : Nandyal (A.P) & Madhya Pradesh
8. Present condition : In good working condition.
9. Depreciated cost : Rs.193.03 lakhs
10. Remarks :

~~PRASAD & COMPANY (P.W.) LTD.~~

  
Managing Director.


PRASAD & CO. (PROJECT WORKS) LIMITED.

PLANT AND EQUIPMENT ON HAND

Give details of plant and equipment owned  
will be used for the work in the following proforma.

1. Name of equipment : Wagon Drills
2. Number of Units (Give details whether New or Old) : 10 Nos. 8 Nos. - New  
2 Nos. - Old
3. Make of equipment : W.D.S & ATLAS COPCO
4. Capacity : BBC 120 F
5. Normal life specified by the manufacturer in working hours (Age and condition of the equipment) : 10,000 hrs.
6. Number of actual working hours put in by the machine : 8 Nos. - New  
2 Nos. - 4,000 hrs.
7. Present Location : Nandyal (A.P) & M.P.
8. Present condition : In good working condition.
9. Depreciated cost : Rs.3.00 lakhs.
10. Remarks :

For Prasad & Company (Project Works) Ltd.

  
Managing Director.

PRASAD & CO. (PROJECT WORKS) LIMITED.

PLANT AND EQUIPMENT ON HAND

Give details of plant and equipment owned . . .  
will be used for the work in the following proforma.

1. Name of equipment : Dozer
2. Number of Units (Give details whether New or Old) : 1 No.
3. Make of equipment : TEREX
4. Capacity : 250 HP.
5. Normal life specified by the manufacturer in working hours (Age and condition of the equipment) : 12,000 hrs.
6. Number of actual working hours put in by the machine : 6,000 hrs.
7. Present Location : Nandyal (A.P)
8. Present condition : In good working condition.
9. Depreciated cost : Rs.25.06 lakhs.
10. Remarks :

For PRASAD & COMPANY (P W ) LTD.



Managing Director.

PRASAD & CO. (PROJECT WORKS) LIMITED.

PLANT AND EQUIPMENT ON HAND

Give details of plant and equipment owned  
will be used for the work in the following proforma.

1. Name of equipment : Compressors
2. Number of Units (Give details  
whether New or Old) : 10 Nos. 4 Nos. - New  
6 Nos. - Old
3. Make of equipment : ATLAS COPCO & KHOSLA Creppele
4. Capacity : 300, 450 & 600 cfm.
5. Normal life specified by the  
manufacturer in working  
hours (Age and condition of  
the equipment) : 10,000 & 20,000 hrs.
6. Number of actual working  
hours put in by the machine : 4 Nos. - New  
6 Nos. - 4,000 to 6,000 hrs.
7. Present Location : Nandyal (A.P)
8. Present condition : In good working condition.
9. Depreciated cost : Rs.20.00 lakhs.
10. Remarks :

For PRASAD & COMPANY (P.W.) LTD.

  
Managing Director.

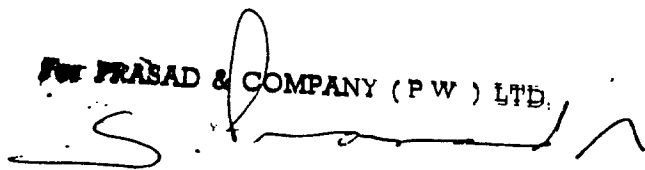
PRASAD & CO. (PROJECT WORKS) LIMITED.

PLANT AND EQUIPMENT ON HAND

Give details of plant and equipment owned  
will be used for the work in the following proforma.

1. Name of equipment : Road Rollers
2. Number of Units (Give details  
whether New or Old) : 5 Nos. 2 Nos - Old  
3 Nos - New
3. Make of equipment : LAKHINA
4. Capacity : 10 Tons
5. Normal life specified by the  
manufacturer in working  
hours (Age and condition of  
the equipment) : 10,000 hrs.
6. Number of actual working  
hours put in by the machine : 3 Nos. - New  
2 Nos. - 4,000 & 5,000 hrs.
7. Present Location : Nandyal (A.P) & M.P
8. Present condition : In good working condition.
9. Depreciated cost : Rs.7.75 lakhs.
10. Remarks

**FOR PRASAD & COMPANY (P W ) LTD.**

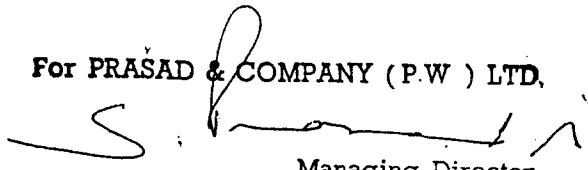
  
**Managing Director.**

PLANT AND EQUIPMENT ON HAND

Give details of plant and equipment owned  
will be used for the work in the following proforma.

1. Name of equipment : Paving Equipment
2. Number of Units (Give details whether New or Old) : 1 No. - New
3. Make of equipment : GOMACO
4. Capacity : SL 450
5. Normal life specified by the manufacturer in working hours (Age and condition of the equipment) :
6. Number of actual working hours put in by the machine :
7. Present Location : Nandyal (A.P)
8. Present condition : In good working condition.
9. Depreciated cost : Rs.25.00lakhs.
10. Remarks :

FOR PRASAD & COMPANY (P.W) LTD.

  
Managing Director.


PRASAD & CO. (PROJECT WORKS) LIMITED.

PLANT AND EQUIPMENT ON HAND

Give details of plant and equipment owned  
will be used for the work in the following proforma.

1. Name of equipment : Jack Hammers
2. Number of Units (Give details whether New or Old) : 20 Nos.
3. Make of equipment : ATLAS COPCO
4. Capacity : 65S SL 120 cfm
5. Normal life specified by the manufacturer in working hours (Age and condition of the equipment) : 12,000 hrs.
6. Number of actual working hours put in by the machine : 3,000 to 6,000 hrs.
7. Present Location : Nandyal (A.P) & M.P.
8. Present condition : In good working condition.
9. Depreciated cost : Rs..90lakhs.
10. Remarks

For Prasad & Company (Project Works) Ltd.

  
Managing Director.

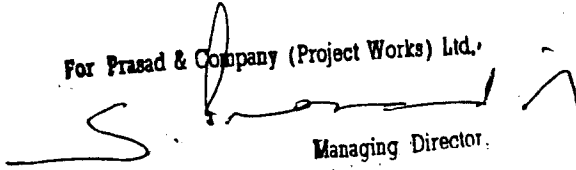
PRASAD & CO. (PROJECT WORKS) LIMITED.

PLANT AND EQUIPMENT ON HAND

Give details of plant and equipment owned  
will be used for the work in the following proforma.

1. Name of equipment : Water Tankers
2. Number of Units (Give details whether New or Old) : 5 Nos. 3 Nos. - New  
2 Nos. - Old
3. Make of equipment : Mounted by TATA Benz
4. Capacity : 6,000 Lts.
5. Normal life specified by the manufacturer in working hours (Age and condition of the equipment) : 2,00,000 Kms.
6. Number of actual working hours put in by the machine : 3 Nos. - New  
2 Nos. - 1,00,000 & 80,000 hrs.
7. Present Location : Nandyal (A.P) & M.P.
8. Present condition : In good working condition.
9. Depreciated cost : Rs.20.00lakhs.
10. Remarks

For Prasad & Company (Project Works) Ltd.,

  
Managing Director.

PRASAD & CO. (PROJECT WORKS) LIMITED.

PLANT AND EQUIPMENT ON HAND

Give details of plant and equipment owned ...  
will be used for the work in the following proforma.

1. Name of equipment : Concrete Mixers
2. Number of Units (Give details whether New or Old) : 25 Nos. - Old
3. Make of equipment : COMENS
4. Capacity : 10/7 cft.
5. Normal life specified by the manufacturer in working hours (Age and condition of the equipment) : 6,000 hrs.
6. Number of actual working hours put in by the machine : 2,000 to 5,000 hrs.
7. Present Location : Nandyal(A.P) & M.P
8. Present condition : In good working condition.
9. Depreciated cost : Rs.8.00 lakhs.
10. Remarks

For PRASAD & COMPANY (P.W) LTD.

  
Managing Director.

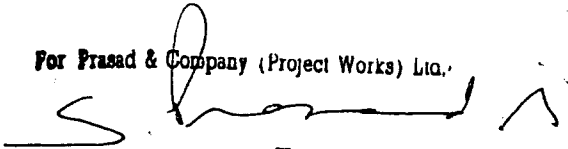
PRASAD & CO. (PROJECT WORKS) LIMITED.

PLANT AND EQUIPMENT ON HAND

Give details of plant and equipment owned  
will be used for the work in the following proforma.

1. Name of equipment : Batching Plant
2. Number of Units (Give details whether New or Old) : 1 No. - New
3. Make of equipment : MILLAR
4. Capacity : 30 Cum/hr.
5. Normal life specified by the manufacturer in working hours (Age and condition of the equipment) : -
6. Number of actual working hours put in by the machine : -
7. Present Location : Nandyal (A.P)
8. Present condition : In good working condition.
9. Depreciated cost : Rs.14.00lakhs.
10. Remarks

For Prasad & Company (Project Works) Ltd.

  
Managing Director.

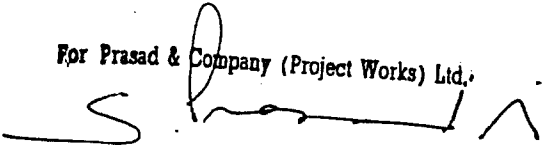
PRASAD & CO. (PROJECT WORKS) LIMITED.

PLANT AND EQUIPMENT ON HAND

Give details of plant and equipment owned  
will be used for the work in the following proforma.

1. Name of equipment : Transit Mixers
2. Number of Units (Give details whether New or Old) : 4 Nos. - New
3. Make of equipment : MILLAR
4. Capacity : 4 Cu.m
5. Normal life specified by the manufacturer in working hours (Age and condition of the equipment) : -
6. Number of actual working hours put in by the machine : -
7. Present Location : Nandyal (A.P)
8. Present condition : In good working condition.
9. Depreciated cost : Rs.26.80 lakhs.
10. Remarks

For Prasad & Company (Project Works) Ltd.

  
Managing Director.

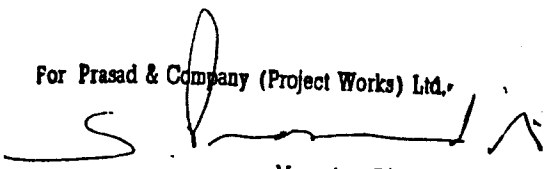
PRASAD & CO. (PROJECT WORKS) LIMITED.

PLANT AND EQUIPMENT ON HAND

Give details of plant and equipment owned  
will be used for the work in the following proforma.

1. Name of equipment : Vibrators (Pin & Plate)
2. Number of Units (Give details whether New or Old) : 20 Nos. - Old
3. Make of equipment : KILLICK NIXON
4. Capacity : Pin  $\phi$  60mm & 40 mm.
5. Normal life specified by the manufacturer in working hours (Age and condition of the equipment) : 3,000 hrs.
6. Number of actual working hours put in by the machine : 3,000 to 5,000 hrs.
7. Present Location : Nandyal (A.P) & MIP
8. Present condition : In good working condition.
9. Depreciated cost : Rs.0.65lakhs
10. Remarks

For Prasad & Company (Project Works) Ltd.,

  
Managing Director.

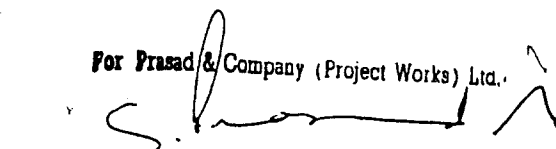
PRASAD & CO. (PROJECT WORKS) LIMITED.

PLANT AND EQUIPMENT ON HAND

Give details of plant and equipment owned  
will be used for the work in the following proforma.

1. Name of equipment : Diesel Pump Sets.
2. Number of Units (Give details whether New or Old) : 12 Nos. - Old
3. Make of equipment : KIRLOSKER & PARRY
4. Capacity : 5 to 25 H.P.
5. Normal life specified by the manufacturer in working hours (Age and condition of the equipment) : 10,000 to 20,000 hrs.
6. Number of actual working hours put in by the machine : 6,000 to 12,000 hrs.
7. Present Location : Andhra Pradesh & Madhya Pradesh
8. Present condition : In good working condition.
9. Depreciated cost : Rs. 5.60 lakhs
10. Remarks :

For Prasad & Company (Project Works) Ltd.

  
Managing Director.

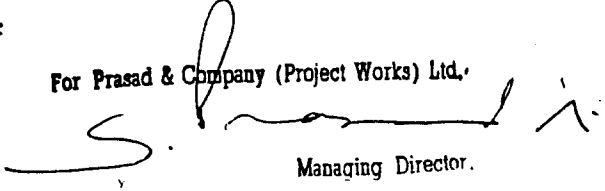
PRASAD & CO. (PROJECT WORKS) LIMITED.

PLANT AND EQUIPMENT ON HAND

Give details of plant and equipment owned which will be used for the work in the following proforma.

1. Name of equipment : Pump Sets (Electrical)
2. Number of Units (Give details whether New or Old) : 13 Nos. - Old
3. Make of equipment : KIRLOSKAR & PARRY
4. Capacity : 5 H.P to 25 H.P
5. Normal life specified by the manufacturer in working hours (Age and condition of the equipment) : 20,000 hrs.
6. Number of actual working hours put in by the machine : 6,000 to 12,000 hrs.
7. Present Location : Andhra Pradesh & Madhya Pradesh
8. Present condition : In good working condition.
9. Depreciated cost : Rs.0.75 lakhs
10. Remarks :

For Prasad & Company (Project Works) Ltd.

  
Managing Director.


PRASAD & CO. (PROJECT WORKS) LIMITED.

PLANT AND EQUIPMENT ON HAND :

Give details of plant and equipment owned  
will be used for the work in the following proforma.

1. Name of equipment : Generators.
2. Number of Units (Give details  
whether New or Old) : 4 Nos. 2 Nos. - New  
2 Nos. - Old
3. Make of equipment : PARRY
4. Capacity : 125 KVA
5. Normal life specified by the  
manufacturer in working  
hours (Age and condition of  
the equipment) : 30,000 hrs.
6. Number of actual working  
hours put in by the machine : 2 Nos. - New  
2 Nos. - 10,000 hrs.
7. Present Location : Nandyal (A.P) & M.P.
8. Present condition : In good working condition.
9. Depreciated cost : Rs.4.75 lakhs.
10. Remarks :

For Prasad & Company (Project Works) Ltd.

  
Managing Director.

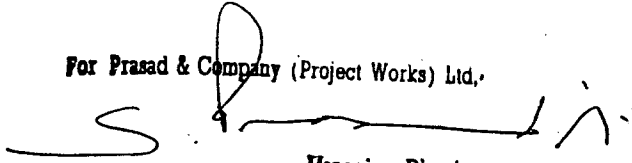
PRASAD & CO. (PROJECT WORKS) LIMITED.

PLANT AND EQUIPMENT ON HAND

Give details of plant and equipment owned  
will be used for the work in the following proforma.

- |     |  |   |                            |
|-----|--|---|----------------------------|
| 1.  | Name of equipment  | : | Slip Form Paver            |
| 2.  | Number of Units (Give details<br>whether New or Old)   | : | 2 Nos. - New               |
| 3.  | Make of equipment  | : | ACCROW                     |
| 4.  | Capacity   | : |                            |
| 5.  | Normal life specified by the<br>manufacturer in working<br>hours (Age and condition of<br>the equipment) | : | --                         |
| 6.  | Number of actual working<br>hours put in by the machine  | : | - New -                    |
| 7.  | Present Location   | : | Nandyal (A.P.)             |
| 8.  | Present condition  | : | In good working condition. |
| 9.  | Depreciated cost   | : | Rs.1.00 lakh               |
| 10. | Remarks  | : | --                         |

For Prasad & Company (Project Works) Ltd.

  
Managing Director.

PRASAD & CO. (PROJECT WORKS) LIMITED.

PLANT AND EQUIPMENT ON HAND

Give details of plant and equipment owned  
will be used for the work in the following proforma.

1. Name of equipment : Crushers
2. Number of Units (Give details whether New or Old) : 5 Nos. 2Nos. - New  
3 Nos. - Old
3. Make of equipment : SAYAJI & MILLAR
4. Capacity : 30 Tons/Hours & 10 T/hrs.
5. Normal life specified by the manufacturer in working hours (Age and condition of the equipment) : --
6. Number of actual working hours put in by the machine : --
7. Present Location : Nandyal, A.P. & Madhya Pradesh
8. Present condition : In good working condition.
9. Depreciated cost : Rs.20.00 lakhs
10. Remarks

For Prasad & Company (Project Works) Ltd.

  
Managing Director.

PRASAD & CO. (PROJECT WORKS) LIMITED.

PLANT AND EQUIPMENT ON HAND

Give details of plant and equipment owned  
will be used for the work in the following proforma.

- |     |   |   |                                 |
|-----|---|---|---------------------------------|
| 1.  | Name of equipment   | : | Diesel Generators               |
| 2.  | Number of Units (Give details whether New or Old)   | : | 4 Nos. - Old                    |
| 3.  | Make of equipment   | : | PARRY                           |
| 4.  | Capacity  | : | 35 KVA & 15 KVA                 |
| 5.  | Normal life specified by the manufacturer in working hours (Age and condition of the equipment) | : | --                              |
| 6.  | Number of actual working hours put in by the machine  | : | --                              |
| 7.  | Present Location  | : | Madhya Pradesh & Andhra Pradesh |
| 8.  | Present condition   | : | In good working condition.      |
| 9.  | Depreciated cost  | : | Rs.1.00 lakh                    |
| 10. | Remarks   | : | --                              |

For PRASAD & COMPANY (P.W.) LTD.


  
Managing Director,

II. PLANT AND EQUIPMENT TO BE PROCURED

Give details as to how additional Plant & Equipment which may be required for this work would be obtained.

1. Name of Equipment : Lorries & Tippers
2. Number of Units : 25 Nos.
3. Make of Equipment : Ashok Leyland & Tata Benz
4. Country : India
5. Capacity : 10 Tons
6. Approximate cost in Rs. : Rs.5.50 lakhs each
7. Remarks : New

For Prasad & Company (Project Works) Ltd.


  
Managing Director

II. PLANT AND EQUIPMENT TO BE PROCURED

Give details as to how additional Plant & Equipment which may be required for this work would be obtained.

1. Name of Equipment : Compressors
2. Number of Units : 4 Nos.
3. Make of Equipment : ATLAS COPCO
4. Country : India
5. Capacity : 450 cfm
6. Approximate cost in Rs. : 5.00 lakhs each
7. Remarks : New

For PRASAD & COMPANY (P.W.) LTD.



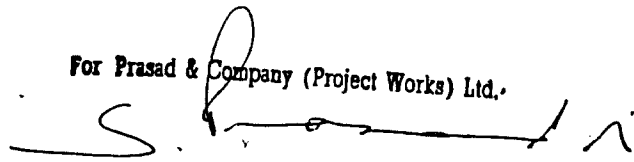
Managing Director.

II. PLANT AND EQUIPMENT TO BE PROCURED

Give details as to how additional Plant & Equipment which may be required for this work would be obtained.

1. Name of Equipment : Compressor
2. Number of Units : 1 No.
3. Make of Equipment : ATLAS COPCO
4. Country : India
5. Capacity : 450 cfm
6. Approximate cost in Rs. : 5.00 lakhs each
7. Remarks : New

For Prasad & Company (Project Works) Ltd.



Managing Director

II. PLANT AND EQUIPMENT TO BE PROCURED

Give details as to how additional Plant & Equipment which may be required for this work would be obtained.

1. Name of Equipment : Batching Plant
2. Number of Units : 1 No.
3. Make of Equipment : Millar
4. Country : India
5. Capacity : 25 Cum/hr.
6. Approximate cost in Rs. : 15.00 lakhs
7. Remarks : New

For Prasad & Company (Project Works) Ltd.

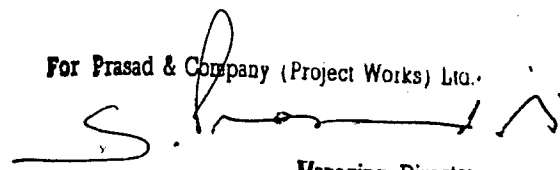
  
Managing Director.

II. PLANT AND EQUIPMENT TO BE PROCURED

Give details as to how additional Plant & Equipment which may be required for this work would be obtained.

1. Name of Equipment : Transit Mixers
2. Number of Units : 3 Nos.
3. Make of Equipment : Millar
4. Country : India
5. Capacity : 4 Cum
6. Approximate cost in Rs. : 5.00 lakhs each
7. Remarks : New

For Prasad & Company (Project Works) Ltd.



Managing Director.


Prasad & Co. (Project Works) Limited

II. PLANT AND EQUIPMENT TO BE PROCURED

Give details as to how additional Plant & Equipment which may be required for this work would be obtained.

1. Name of Equipment : Concrete Placer
2. Number of Units : 2 Nos.
3. Make of Equipment : Millar
4. Country : India
5. Capacity :
6. Approximate cost in Rs. : 4.50 lakhs each
7. Remarks : New

For PRASAD & COMPANY (P.W) LTD.

  
Managing Director.

ANNEXURE 'D'

TECHNICAL PERSONNEL

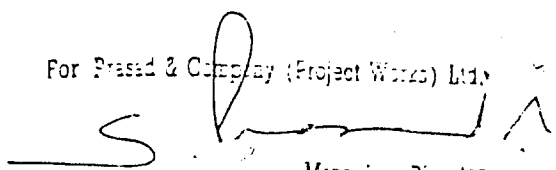
The following are the Technical Personnel who will be available at Site:

<u>I. GRADUATE ENGINEERS:</u>	<u>EXPERIENCE</u>
1. Sri. A. Ravindra Prasad, B.E.	9 years
2. Sri. P. Bosu Babu, B.E.	12 years
3. Sri. C.S.R.K. Prasad, B.E.	8 years
4. Sri. G.R.C. Bose, B.E.	9 years
5. Sri. Harinath Kumar, B.E.	3 years
6. Sri. C. Prakash Gupta, B.E.	2 years
<u>II. DIPLOMA HOLDERS:</u>	
1. Sri. CH. Ramesh, L.C.E.	5 years
2. Sri. D. Siva Rama Raju, D.C.E.	3 years
3. Sri. S. Srinivas, D.C.E.	2 years
4. Sri. G. Nagi Reddy, L.C.E.	2 years
5. Sri. S.K. Mohammad Iohya, D.C.E.	3 years
6. Sri. A. Surendar Reddy, L.C.E.	3 years

Besides the above Sri. P. Madan Gopal, B.Sc., B.E., F.I.E., General Manager having an experience of more than 35 years will be in over all Technical Supervision of this Work and another contingent of Five Graduate Engineers and 15 Nos. of Diploma Holders will also be working on this work.

- // -

For Prasad & Company (Project Works) Ltd.

  
Managing Director.

SECOND ANDHRA PRADESH IRRIGATION PROJECT

(CURVE FOR STRUCTURES)

NAME OF WORKER REC FROM: KM 38.000 TO 50.870 (PACKAGE VI) NAME OF CONTRACTOR: BEARAD & CO. (PROFESSIONAL WORKS) LTD

SI. NO.	MAJOR COMPONENTS	ESTIMATED QUANTITY IN % OF AMOUNT	% OF QUANTITY	PARTICULARS	CONTRACT PERIOD : 3 YEARS	
					TO	END OF
01.	SIDE WALL & SURPLUS WEIR - 6 Km 38.4E	7.775 1286.682	6.25	PREDICTED ACTUAL	1944	1944
02.	SINGLE LANE BRIDGE - 6 Km 40.00	5.03 1255.302	0.45	PREDICTED ACTUAL	1944	1944
03.	SIDE WALL & SURPLUS WEIR - 6 Km 40.60	5.097 785.571	4.20	PREDICTED ACTUAL	1944	1944
04.	SIDE WALL & SURPLUS WEIR - 6 Km 40.80	24.645 3504.6712	20.23	PREDICTED ACTUAL	1944	1944
05.	SINGLE LANE BRIDGE - 6 Km 45.245	7.20 1517.829	0.62	PREDICTED ACTUAL	1944	1944
06.	SIDE WALL & SURPLUS WEIR - 6 Km 45.7E	4.675 530.8739	3.85	PREDICTED ACTUAL	1944	1944
07.	U.T. - 6 Km 46.7E	4.365 1246.081	3.59	PREDICTED ACTUAL	1944	1944
08.	SINGLE LANE BRIDGE - 6 Km 46.9	7.75 1750.02	0.64	PREDICTED ACTUAL	1944	1944
09.	U.T. - 6 Km 46.9E	4.665 1145.2072	3.85	PREDICTED ACTUAL	1944	1944
10.	SIDE WALL & SURPLUS WEIR - 6 Km 50.2E	12.325 2225.698	10.43	PREDICTED ACTUAL	1944	1944
11.	SURPLUS ESCAPE - 6 Km 50.7E	7.75 1255.302	6.40	PREDICTED ACTUAL	1944	1944
12.	OFF TAKE REGULATOR - 6 Km 50.7E	4.665 1145.2072	3.85	PREDICTED ACTUAL	1944	1944
TOTAL		122.205 1825.027	100			
OVERALL STATUS						

QUANTITY FINANCIAL

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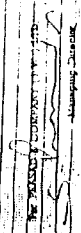
# SECOND ANDHRA PRADESH IRRIGATION PROJECT

## SCHEMEL FOR EXPENDITURE

NAME OF WORK: S. REC. FROM KM-36.000 TO 50.500

NAME OF CONTRACTOR: PRASAD & CO. (PROJECT WORKS) LTD.

Sl. No.	MAJOR COMPONENTS	ESTIMATED AMOUNT RS. LACS.	% OF AMOUNT	PARTICULARS		CONTRACT PERIOD	START	END	OF
				PROJECTED	ACTUAL				
01	EARTH WORK	750.75	78.2						
02	STRUCTURES	2085.20	21.8						
	TOTAL	2835.95	100						
<p>01.05.15 25.32.6 : 1.11.15 15.21.284 2500.00 = 0.34 44.0 46.10.6.51 297.605 401.70 8.786 0.04 4.11.05 366.306 922.84 202.082 07.29.50</p> <p>15 : 60.85 13.8 18 21.5 201.503 345 335.208 306.444 105.501 60.011.04 681.205 7497.0 750.75 20. 817.159 84.00</p>									
<p>07.14.24.27.31.74 10 152.115 25 272.237 35 42 48 60 661.021 074.021 170.715 207.763 015 017 018 019 020 021 022 023 024 025 026 027 028 029 030 031 032 033 034 035 036 037 038 039 040 041 042 043 044 045 046 047 048 049 050 051 052 053 054 055 056 057 058 059 060 061 062 063 064 065 066 067 068 069 070 071 072 073 074 075 076 077 078 079 080 081 082 083 084 085 086 087 088 089 090 091 092 093 094 095 096 097 098 099 100</p>									
<p>6. 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100</p>									

  
 M. PRASAD  
 Managing Director