

अधीक्षण अभियंता का कार्यालय
ग्रामीण कार्य विभाग, कार्य अंचल, मुजफ्फरपुर

पत्रांक-1687.....

मुज0/ दिनांक-28/12/2020

प्रेषक,

अधीक्षण अभियंता,
ग्रामीण कार्य विभाग,
कार्य अंचल, मुजफ्फरपुर।

सेवा में,

मुख्य अभियंता-04,
ग्रामीण कार्य विभाग,
बिहार, पटना।

विषय:- बाढ़/ अतिवृष्टि के कारण क्षतिग्रस्त पथ अंधराबाड़ से
मुरौवतपुर जाने वाली सड़क में पहले कि०मी० से छटे
कि०मी० में पुर्नस्थापन कार्य का प्राक्कलन प्रशासनिक
स्वीकृति हेतु समर्पित करने के संबंध में।

प्रसंग:- कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमण्डल,
महनार का पत्रांक-950 दिनांक-27.11.2020

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र से प्राप्त पथ के पुर्नस्थापन
कार्य का प्राक्कलन प्रशासनिक स्वीकृति हेतु समर्पित की जाती है।

अनु०-यथोक्त।

विश्वासभाजन

1/11/20
अधीक्षण अभियंता,
ग्रामीण कार्य विभाग,
कार्य अंचल, मुजफ्फरपुर।

कार्यपालक अभियंता का कार्यालय
ग्रामीण कार्य विभाग, कार्य प्रमंडल, महनार।

पत्रांक :- 950

दिनांक :- 27/11/2020

प्रेषक:- कार्यपालक अभियंता,
ग्रामीण कार्य विभाग, कार्य प्रमंडल,
महनार।

सेवा में,
अधीक्षण अभियंता,
ग्रामीण कार्य विभाग,
कार्य अंचल, मुजफ्फरपुर।

विषय:- शीर्ष FDR योजनान्तर्गत तकनीकी अनुमोदन के संबंध में।

महाशय,

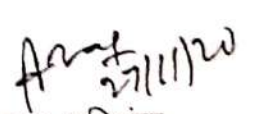
उपर्युक्त विषय के संबंध में कहना है कि शीर्ष FDR योजनान्तर्गत प्रमण्डलाधीन निम्नलिखित 01 (एक) योजना का प्राक्कलन तैयार कर आवश्यक कार्रवाई हेतु समर्पित की जाती है।

क्र०सं०	प्रखण्ड	योजना का नाम	प्रक्कलित राशि (लाख)
1.	सहदेई बुजुर्ग	अन्धराबड़ से मुरौवतपुर जानेवाली सड़क के पहला से छठा कि०मी० में मरम्मत कार्य।	21.92

प्राक्कलन की घटनोत्तर तकनीकी अनुमोदन एवं आवश्यक कार्रवाई हेतु समर्पित की जाती है।

अनु०:-यथोपरि।

विश्वासभाजन


कार्यपालक अभियंता
ग्रामीण कार्य विभाग, कार्य प्रमंडल
महनार।

GOVERNMENT OF BIHAR
RURAL WORKS DEPARTMENT

RESTORATION WORK

2020-21

STATE :- BIHAR
DISTRICT :- Vaishali
BLOCK :- Sahdei Bujurg

**ANDHARABARH SE MURAUWATPUR JANE WALI SADAK MAIN
1ST TO 6TH KM MAIN RESTORATION WORK**

ESTIMATE

TOTAL LENGTH OF ROAD	11.500 KM
TOTAL COST FOR RESTORATION	Rs. 21.92 Lac.
TOTAL PROJECT COST INCLUDING LC & GST	Rs. 21.92 Lacs

PREPARED BY:
EXECUTIVE ENGINEER
RWD WORKS DIVISION
MAHNAR

पत्रांक- 282-6

दिनांक- 15/12/2020

प्रेषक-

कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, महुआ।

सेवा में,

अधीक्षक अभियंता
ग्रामीण कार्य विभाग,
कार्य अंचल, मुजफ्फरपुर।

विषय: ग्रामीण कार्य विभाग, कार्य प्रमंडल, महनार से संबंधित FDR मद से कराये गये यातायात पुनर्स्थापन कार्य का प्राक्कलन जाँच के सम्बन्ध में।

महाशय,

उपरोक्त विषयक सन्दर्भ में सूचित करना है ग्रामीण कार्य विभाग, कार्य प्रमंडल, महनार से संबंधित FDR मद से कराये गये निम्न पथ में यातायात पुनर्स्थापन कार्य का प्राक्कलन जाँच किया गया एवं प्राक्कलन कार्य के अनुरूप पाया गया।

क्र०स०	पथ का नाम	प्राक्कलित राशि
1	अन्धराबड़ से मुरौवतपुर जानेवाली सड़क के पहला से छठा कि०मी० में मरम्मत कार्य	21.92 लाख

विश्वासभाजन

5/-
15.12.20

कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, महुआ।

प्रतिवेदन

योजना का नाम :- अन्धराबड़ से मुरौवतपुर जानेवाली सड़क के पहला से छठा कि०मी० में मरम्मत कार्य।
योजना शीर्ष :- F.D.R.
पथ्यांश की लम्बाई :- 6.000 कि० मी०
प्रखंड :- सहदेई बुर्जुग
प्रमण्डल :- महनार
जिला :- वैशाली
प्राक्कलित राशि :- 21.92 लाख

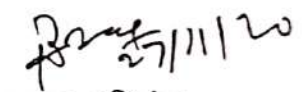
प्रस्तुत प्राक्कलन 2020 के दौरान कराये गये अपातकालिन सड़क मरम्मत कार्य हेतु तैयार किया गया है। जूलाई 2020 के महिना में हुई वर्षा के कारण इस ग्रामीण पथ के पहले कि०मी० में भारी जलजमाव के कारण पथ काफी क्षतिग्रस्त हो गया था, यातायात सुचारु रखने के क्रम में पथ के क्षतिग्रस्त भाग में समतलीकरण करके ब्रिक बेट और लोकल बालू डालकर तदुपरान्त एक लेयर डब्लू०बी०एम० ग्रेड ।।। डालकर पथ का मरम्मत कार्य किया गया है।

इस प्राक्कलन में ब्रिक बेट, लोकल बालू आदि के दर का दर विश्लेषण वास्तविकता के आधार पर किया गया है। इस दर में 10 प्रतिशत सी.पी. सम्मिलित नहीं है।

प्राक्कलन की घटनोत्तर तकनीकी स्वीकृति अपेक्षित है।


कनीय अभियंता


सहायक अभियंता


कार्यपालक अभियंता,
ग्रामीण कार्य विभाग, कार्य प्रमंडल,
महनार।

Flood Damage Repair GENERAL ABSTRACT OF COST

Name of Road : Andharabarh Se Murauwatpur Jane Wall Sadak main 1st To 6th KM main Restoration work
District : Vaishali
Block : Sahdei Bujurg

Sl. No.	Item of work	Amount (In Rs.)
1	Cost for Erosion control work	18,35,878.93 1949728.51 2263694.84
	Total Cost of Work :	2263694.84 1949728.51
	Labour Cess @ 1%	18,35,878.93
	GST @ 12 %	1518413 18,358.79
	Total Seigniorage Fee	1822692 20,305.47
	Grand Total :	1,17,809.54 21,92,352.73 2557925.19 2264996.18

[Signature]
27/11/20
J.E.

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27/11/20
A.E.

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27/11
E.E.

**Flood Damage Repair
GENERAL ABSTRACT OF COST**

Name of Road : Andharabharh Se Murauwatpur Jane Wall Sadak main 1st To 6th KM main
Restoration work

District : Vaishali
Block : Sahdei Bujurg

Sl. No.	Item of work	Amount (In Rs)	Labour Cess 1%	GST 12 %	Amount (In Rs.)
1	Filling Brick Bat 100 A	17,91,282.38			
2	Levelling and Compacting	13,60,486.43	13604.66	163255.97	15,37,327.07
3	Excavation in Soil	33,065.94	330.66	3967.91	37,364.51
4	Compacting of Soil	2,228.70	22.29	267.44	2,518.43
5	Local Sand	22,460.60	224.61	2695.27	25,380.48
6	Base Course	1,00,690.92	1006.91	12082.91	1,13,780.74
		3,16,966.33	3169.66	38035.96	3,58,171.95
	Sub Total :	18,35,878.93	18358.79	220305.47	20,74,543.19
	Total Cost of Work :				20,74,543.19
	Total Seigniorage Fee				1,17,809.54
	Grand Total :				21,92,352.73

20241179.6
1968143.01

1949728.54
2063644.87
15189.13
21636.97
182269.51
27164338
2147135.18
2557935.19

2203193.49
2203193.19
2147137.13
22210627

2557935.19
2264996.72 L
Soy Rs- 22.55
20/11

27/11/20
J.E

27/11/20
A.E

Technically approved for Rs- 21.64 Lacs.

(Twenty two lacs sixty four thousand only).

22.12.20
S.L

Flood Damage Repair **COST ESTIMATE FOR RESTORATION WORK**

Road **Andharabari Se Murauwatpur Jane Wall Sadak main 1st To 6th KM main Restoration work**
District **Vaishali**
Block **Sahdei Bujurg**

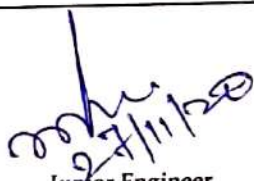
Sl No.	Refer to MORD	Brief Description of Item	No.	Measurements			Unit	Quantity	Rate (Rs)	Amount (Rs)
				L (m)	B (m)	D (m)				
1		Supplying Filling Brick Bat Compacted Manually								
		Supplying Filling Brick Bat Compacted Manually by CI Hammer including all complete job.								
			1	36.0	6.0	0.60	CUM	129.60		
			1	110.0	5.5	0.65	CUM	393.25		
			1	90.0	1.7	0.45	CUM	68.85		
			1	10.0	4.0	0.35	CUM	14.00		
			1	15.0	4.0	0.35	CUM	21.00		
			1	40.0	4.2	0.35	CUM	58.80		
			1	55.0	1.75	0.35	CUM	33.69		
			1	35.0	1.6	0.40	CUM	22.40		
			1	60.0	4.0	0.35	CUM	84.00		
			4	10.0	1.75	0.35	CUM	24.50		
			1	6.0	4.00 (av.)	1.25 (av.)	CUM	30.00		
		Total		467.00	3.5	0.5	CUM	880.09	1545.83	1365.43
2	3.15	Levelling and Compacting ground								
		Loosening, Levelling and Compacting original ground supporting embankment to facilitate placement of first layer of embankment, scarified to a depth of 150mm mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as giving in Tables 300.1 and 300.1 for embankment construction as per Technical Specification Clause 301.4.1.								
			1	467.0	3.50 (av.)	0.50 (av.)	CUM	817.25		
3	302(iii)A	Excavation in Soil By Mechanical means								
		Excavation for roadway in soil Using manual means for currying of cut earth to embankment site with a lift upto 1.5 m and lead upto 100 m as per Technical Specification Clause 302.3								
		Drain	1	100.0	0.60 (av.)	0.50 (av.)	CUM	30.00		
		Total					CUM	30.00	74.29	2,228.70

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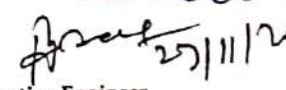
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4	300 & 1200	Supplying Filling Local Sand							
		Filling in foundation trenches as per drawing and technical specification Clause 305.3.9							
			1	467.0	3.50 (av.)	0.150 (av.)	CUM	245.175	
		Total					CUM	245.175	410.69 1,00,690.82
3	302(ii)B	Compacting of Soil By Mechanical means							
		Excavation for roadway in soil Using manual means for currying of cut earth to embankment site with a lift upto 1.5 m and lead upto 100 m as per Technical Specification Clause 302.3							
			1	467.0	3.50 (av.)	0.50 (av.)	CUM	817.25	
		Total					CUM	817.25	27.48 22,450.50
5	4.8 (3)B	WBM							
		WBM Grading 3 Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 kN in stages to proper grade and camber, applying and brooming, stone screening to fill-up the interstices of coarse aggregate, watering and compacting to the required density Grading 3 as per Technical Specification Clause 405.80 -100 kN static roller in stages to proper grade and camber, applying and brooming, crushable screening to fill-up the interstices of coarse aggregate, watering and compacting to the required density Grading 3 as per Technical Specification Clause 405.							
			1	247.00	3.75 (av.)	0.075	cum	69.47	
			1	220	1.70 (av.)	0.075	cum	28.05	
		Total					Cum	97.52	3250.30 3,16,956.33
								TOTAL COST	18,15,878.93


Junior Engineer
R.W.D. Works Section, Sahdei Bujurg


Asstt. Engineer
R.W.D. (W) Sub Division, Sahdei Bujurg


Executive Engineer
R.W.D. Works Division, Mahnar

General rate Analysis

Sr. No.	Refer ence to	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1		Supplying Filling Brick Bat Compacted Manually				
		Unit = cum				
		Taking output = 300 cum				
		a) Labour				
		Mate	day	0.48	305.00	146.40
		Mazdoor (Skilled)	day	2.00	364.00	728.00
		Mazdoor (Unskilled)	day	10.00	287.00	2,870.00
		c) Material				
		For Material				
		Brick Bat	cum	360.00	1,017.00	3,66,120.00
		d) Overheads @ 6.0% on (a+b)				22,191.86
		Cost for 300 cum = a+c+d				3,92,056.26
		Rate per cum = (a+c+d)/300				1,306.85
		Add for Carriage Cost				
		Brick Bats Equivalent to Brick (663.52*850/1000*2.832)	cum	1.20	199.15	238.98
		Total Cost per cum				1,545.83
		Rate Adopted in DPR				1,545.83

2035-34

Compacting Original Ground**303 (ii) Compacting original ground supporting subgrade
Loosening, Levelling and Compacting original ground**

Unit = cum

Taking output = 600 cum

a) Labour

Male	day	0.24	305	73.20
Mazdoor (Unskilled)	day	6	287	1,722.00

b) Machinery

Tractor with ripper attachment	hour	10	591.4	5,914.00
Tractor Mounted Grading Arrangement	hour	12	549.1	6,589.20
Water tanker 8 kl capacity	hour	4	184	736.00
Three wheel 80-100 kN Static Roller @ 70 cum per hour	hour	8.6	803	6,905.80

c) Material

Water	kl	24	40	960.00
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d) Overheads @ 6.0% on (a+b+c)

1,374.01

Cost for 600 cum = a+b+c+d

24,274.21

Rate per cum = (a+b+c+d)/600

40.45

Rate Adopted in DPR

40.45

3 30 & 121 Filling in foundation trenches as per drawing and technical**I. Sand filling**

Unit = cum

a) Labour

Male	day	0.01	284	2.84
Mazdoor (Unskilled)	day	0.3	268	80.40

b) Material

Sand (assuming 20 per cent voids) (Fine)	cum	1.2	116.85	140.22
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c) Overheads @ 6% on (a+b) Fine Sand Used

13.41

Rate per cum = a+b+c (If fine Sand Used)

236.87

Add for Carriage Cost

Fine Sand	cum	1.2	144.85	173.82
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Total Cost per cum

410.69

Rate Adopted in DPR

410.69

4 4.8 (3)(B)**WBM Grading 3**

Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 kN in stages to proper grade and camber, applying and brooming, stone screening to fill-up the interstices of coarse aggregate, watering and compacting to the required density Grading 3 as per Technical Specification Clause 405.

(B) By Mechanical Means

Unit = cum

Taking output = 360 cum

a) Labour

Male	day	0.68	305	207.40
Mazdoor (Skilled)	day	2	364	728.00
Mazdoor (Unskilled)	day	15	287	4,305.00

b) Machinery

Motor grader 110 HP @ 50 cum per hour for spread hour	7.2	591.40	4,258.08	
Three wheel 80-100 kN static roller @ 8 cum per hour	45	803.00	36,135.00	
Water tanker 6 kl capacity	hour	24	184.00	4,416.00

c) Material (Refer Tables 400.7, 8, 9 and 10)

Aggregate				
Grading 3 53 mm to 22.4 mm @ 0.91 cum per 10	cum	435.6	511.44	2,22,783.26
Type B 11.2 mm for Grading 3 @ 0.18 cum per 10 sqm	cum	86.4	397.73	34,363.87
Water	kl	144	40	5,760.00

d) Overheads @ 6.0% on (a+b+c)

18,777.40

Cost for 360 cum = a+b+c+d

3,31,734.01

Rate per cum = (a+b+c+d)/360

921.48

Add Cost of Carriage :

Grading 3 53 mm to 22.4 mm	cum	1.21	1,606.08	1,943.36
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Moorum	cum	0.24	1,606.08	385.46
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Total Cost per cum

3250.30

Rate Adopted in DPR

3250.30

3.5 302 (ii)**Excavation in Soil By Mechanical means with lead up to**

Excavation for roadway in soil Using manual means for currying of cut earth to

Unit = cum

Taking output = 180 cum

a) Labour

Mate	day	0.08	305.00	24.40
Mazdoor (Unskilled)	day	2.00	287.00	574.00
Dozer D-50 for spreading @ 50 cum per hour (cutting with pl)	hour	3.60	3,337.90	12,016.44
b) Overheads @ 10.0% on (a)				755.89

c)

Cost for 180 cum = a+b+c+d				13,371.73
Rate per cum = (a+b+c+d)/1\80				74.29
Rate Adopted in DPR				74.29

B Compaction Part

Taking output = 100 cum

a) Labour

Mate	day	0.02	305.00	6.10
Mazdoor (Unskilled)	day	0.50	287.00	143.50

b) Machinery

Tractor Mounted Grading Arrangement	hour	1.00	591.40	591.40
Water tanker 6 kl capacity	hour	2.00	184.00	368.00
Three wheel 80-100 kN Static Roller @ 80 cum per hour	hour	1.25	803.00	1,003.75

c) Material

Water	kl	12.00	40.00	480.00
Compensation for earth taken from private land	cum	100.00	0.00	0.00

d) Overheads @ 6.0 % on (ab+c)

155.57

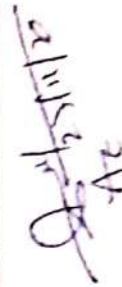
e)

Cost for 100 cum = a+b+c+d+e				2,748.32
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Rate per cum = (a+b+c+d+e)/100				27.48
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Add DPR Cost				102.00
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SL No.	SDB SL No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs	Total material Qty. required (Cum)	Total Amount	Add 10 % Seigniorage Fee
1			Supplying Filling Brick Bat Compacted Manually							
			Supplying Filling Brick Bat Compacted Manually by CI Hammer including all complete job.							
			Unit = cum							
			Taking output = 300 cum							
			Material							
			Brick Bat	cum	360.00	1017.00	366120.00			
			Cost for 300 cum = a				366120.00			
			Rate per cum = (a)/300	cum			1220.40			
			Total Cost				1220.40	880.09	1074059.40	107405.940
2	4.7 (3-B)	405	Water Bound Macadam with Stone Screening Type "B" Gr- III							
			WBM Grading 3							
			Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including							
			(A) By Mechanical Means							
			Unit = cum							
			Taking output = 360 cum							
			Material (Refer Tables 400.7, 8, 9 and 10)							
			Aggregate							
			Grading 3 53 mm to 22.4 mm @ 0.91 cum per 10 sqm for	Cum	435.60	511.44	222783.26			
			Stone Screening	Cum						
			Type B 11.2 mm for Grading 3 @ 0.18 cum per 10 sqm	Cum	86.40	397.73	34363.87			
			Cost for 360 cum = A				257147.14			
			Rate per cum = (A)/360	Cum			714.30			
			Total Cost				714.30	97.52	69657.59	6965.759
1			Supplying Filling Local Sand							
			Filling in foundation trenches as per drawing and technical specification Clause 305.3.9							
			Unit = cum							
			Taking output = 300 cum							
			Material							
			Local Sand	cum	1.20	116.85	140.22			
			Cost 1 cum = a				140.22			
			Rate per cum = (a)	cum			140.22			
			Total Cost				140.22	245.18	34378.44	3437.844
			Total Seigniorage Fee						117809.542	


 Date 3/5/12
 Ac

RATE ANALYSIS FOR CARRIAGE OF BASE MATERIAL

Carriage Cost (Surfaced Road):	By Truck	6.83	Rs 6.83 Per Tonne Per Km	7.60	By Tipper	Rs 7.6 Per Tonne Per Km
Carriage Cost (Un Surfaced Road):		8.22	Rs 8.22 Per Tonne Per Km	9.20		Rs 9.2 Per Tonne Per Km
Carriage Cost (Kacha Road):		16.54	Rs 16.54 Per Tonne Per Km	18.50		Rs 18.5 Per Tonne Per Km
NAME OF ROAD	:	Andharabharh Se Muraawatpur Jane Wali Sadak main 1st To 6th KM main Restoration work				
BLOCK	:	Sahdei Bujurg				
DISTRICT:- Vaishali						

S.NO.	Material	Railway Frieght (Rs)	Lead Distance(Km)			Loading/ Unloading	Unit	M.F.	Carriage Cost Per Km			Total Carriage Cost
			Surface Road	Unsurface d Road	Kaccha Road				Surface Road	Unsurface d Road	Kaccha Road	
2	Crushed Stone cum	929.23	49	0	0	81.01	Cum	8/4.99	595.84	0.00	0.00	1606.08
7	Aggregate including GrIII		2	0	1	96.53	Cum	8/5	21.86	0.00	26.46	144.85
13	Fine Sand(Local Sand)		7	0	1	406.12	1000 No.	8/2	191.24	0.00	66.16	663.52
13	Brick						Cum	8/4.59	83.33	0.00	28.83	518.28
13	Brick Bats		7	0	1	406.12	Cum	8/4.59	83.33	0.00	28.83	518.28

27/11/20

27/11/20

Sheikhpura to Karpoorigram

Quarry Site to Sheikhpura Railway Yard (By Road)

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BASIC RATES

Sl. No.	Description of Labour	Unit	Rate (Rs.)
L-01	Bhisti	day	287
L-02	Bitumen Sprayer(semi skilled)	day	302
L-03	Blacksmith,special	day	388
L-04	Blaster, 2nd class	day	477
L-05	Carpenter 1st Class	day	388
L-06	Chips spreader, semi-skilled	day	345
L-07	Chiseller	day	364
L-08	Dresser (Skilled)	day	367
L-09	Driller	day	345
L-10	Electrician,skilled	day	367
L-11	Fitter, skilled	day	395
L-12	Mason (1st class)	day	388
L-13	Mason (2nd Class)	day	345
L-14	Mate	day	305
L-15	Mazdoor (Unskilled)	day	287
L-16	Mazdoor (Semi skilled)	day	299
L-17	Mazdoor (Skilled)	day	364
L-18	Painter (1st class)	day	364
L-19	Plumber, Special	day	364
L-20	Surveyor	day	349
L-21	White Washer	day	364