



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

GOVT. OF BIHAR

FDR

YEAR 2020-21

Detailed Project Report

Division : Rosera

District :	Samastipur	Block :	Rosera
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Name of
Road :

Rosera Pachim Gumti se Sahiyar Dih

SUBMITTED BY
THE EXECUTIVE ENGINEER
WORKS DIVISION, ROSERA

FDR

Detailed Estimate for

Rosera Pachim Gumti se Sahiyar Dih

Block : Rosera
District : Samastipur

ABSTRACT OF COST FOR ROAD

Sl No	Item of Work	Amount (In Rs)	
		As per Estimate	
1	Total Cost for Pavement Works		794318.50
	Total Cost of Project :	Rs -	794318.50
	Total Cost Including (GST + L.Cess) 13% :	Rs -	103261.40
	Total :	Rs -	897579.90
	Say (Lakh) :	Rs -	8.98

Komman
29/12/20

Junior Engineer
RWD (W) Section, Rosera

8012
29.12.20

Asstt. Engineer
RWD (W) S. Div. Rosera

A. K. S.
29/12/20

Executive Engineer
RWD (W) Div, Rosera

Technical Approved Rs 8.98 Lakh Say Eighty-
Lakh ninety Eight thousand only.

Q. Khan
19.1.21

19.1.21
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नवीन नवीन
नवीन नवीन

Rosera Pachim Gumti se Sahiyar Dih

Total Length (Km): 1.50

Junior Engineer
RWD (W) Section, Rosera

Junior Engineer
D (W) Section, Rosera

$\frac{f_{c(1.5)}}{29.12 \cdot 20}$
Asst. Engineer
RWD (W) S. Div. Rosera

Asst. Engineer
(W) S. Div. Rosera

Executive Engineer
RWD (W) Div, Rosera

Executive Engineer
RWD (W) Div, Rosera

प्रतिवेदन

योजना का नाम :

Rosera Pachim Gunti se Sahiyar Dih

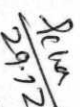
प्रस्तावित प्राक्कलन ग्रामीण कार्य विभाग, बिहार सरकार के पत्रांक-2789 दिनांक-21/08/2020 एवं समस्तीपुर जिलाधिकारी, समस्तीपुर के अत्रादेष्ट के अनुपालन के अलोक में मैं कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल-रोसड़ा के निदेशन में तैयार किया गया है। यह पथ विगत बाढ में डूबने एवं पानी के Over Lapping होने के कारण काफी क्षतिग्रस्त हो चुका है। इस पथ में क्षतिग्रस्त मर्दों का आवश्यकतानुसार दिनांक- 1/9/20 से प्रभावी वर्तमान अनुसूचित दर पर प्रावधान किया गया है, जो जनहित में आवश्यक है। प्राक्कलन आवश्यक कार्रवाई हेतु समर्पित।


29/12/20

कनीय अभियंता

ग्रामीण कार्य विभाग

नर्य प्रशाखा, Rosera


29/12/20

सहायक अभियंता

ग्रामीण कार्य विभाग

कार्य अवर प्रमंडल- Rosera


29/12/20

कार्यपालक अभियंता

ग्रामीण कार्य विभाग,

कार्य प्रमंडल-रोसड़ा

ANALYSIS OF RATES.

BRICK BAT FILLING.

1. Groundwork sub &
providing brick bats including spreading,
carrying stand packing with C.I. Hammers
in layers not exceeding 75MM thick
including cost of eight barriers, danger
signal, chowkidar, taxes, Royalty, etc,
and complete job, as per specifications
and directions of E/S including cost of
bricks. - - - all complete job.

Unit — cum.
assuming — 2.892 M³

Cost of Brick bats — 2.892 M³ @ 1096 = 00 — Rs 3163 = 87
Mazdoor unskilled Local — 0.692 M³ @ 141 = 95/M³ Rs 89 = 65

Labour (unskilled)

1. Carrying, spreading, carrying and
packing unskilled labour 1.5 M³ @ 287 = 00 — Rs 430 = 50
Compaction of brick bats with
C.I. Hammers, 0.670 M³ @ 287 = 00 — Rs 192 = 29
Over head charge @ 6% on (a+b+c) — Rs 228 = 98
Total — 4045 = 29
Rate/M³ — Rs 1428 = 42/M³.

Carriage cost

Carriage for Bricks (1 M³ bat) @ 500 M³ @ 669 = 50/M³ — Rs 199 = 06
Local sand 0.320 M³ @ 97 = 20/M³ — Rs 21 = 94
Total Rs 1648 = 81.
31 = 24
Rs 1680 = 02

2. Granular sub. base, with well
Graded Material, Take up by
mix and place method, for grading
II Material as complete job.

Unit — 300.0 M³

Labour — Moter — 0.48 M³ @ 905 = 00 — Rs 146 = 40
Mazdoor unskilled — 2.0 M³ @ 364 = 00 — Rs 728 = 00
Mazdoor unskilled — 10.0 M³ @ 287 = 00 — Rs 2870 = 00
Machinery

Tractor Motor Grader 6.0 Hrs @ 573 = 20 — Rs 3439 = 20
Three wheel 80-100 KN static weight
10 M³/Hr. 30.0 Hrs. @ 803 = 00/Hr — Rs 24090 = 00
Tractor with rotavator 12.0 Hrs @ 573 = 20 — Rs 6878 = 40
25 M³/Hr. — Rs 920 = 00
Water Tanker 6 M³ Capacity 5.0 Hrs @ 184 = 00 — Rs 920 = 00
Total — 39072 = 00

Material

Course Graded Granular sub base
53 M³ to 9.5 M³, 9.5% — 134.40 M³ @ 604 = 91/M³ — Rs 80695 = 00
9.5 M³ to 2.36 M³, 25% — 96.00 M³ @ 514 = 58/M³ — Rs 49440 = 00
2.36 M³ below Local sand 153.6 M³ @ 141 = 95/M³ — Rs 21788 = 00
Total — 1,92,155 = 00
Add over head charge 6% — Rs 11529 = 00
Total — 2,03,684 = 00

8.47 TYPG/10425f AIR 4.3515 for concrete by Road and Rail for Rs 94200
 A Stone mason Gravel - 4.7 TYPG - 8.00 $\frac{\text{Pucca Soil}}{\text{Mtl.}}$ $\frac{\text{Rubble}}{\text{Mtl.}}$ $\frac{\text{Long/Runway}}{\text{Runway}}$ $\frac{\text{Comp/Runway}}{\text{Runway}}$
 $\frac{4.99}{4.99} \times 6.83 \text{ m} \times \text{Long Runway}$ $\frac{89}{89} = 64$ $\frac{859}{859} = 05$

B. Gravel + 6.50 $\frac{\text{Pucca Soil}}{\text{Mtl.}}$ $\frac{\text{Rubble}}{\text{Mtl.}}$ $\frac{\text{Long/Runway}}{\text{Runway}}$ $\frac{\text{Comp/Runway}}{\text{Runway}}$
 $\frac{8.00}{4.99} \times 7.60 \times \text{Long Runway}$ $\frac{83}{83} = 64$ $\frac{809}{809} = 00$

C. Local Sand 4.7 TYPG - 8.00 $\frac{\text{Pucca Soil}}{\text{Mtl.}}$ $\frac{\text{Rubble}}{\text{Mtl.}}$ $\frac{\text{Long/Runway}}{\text{Runway}}$ $\frac{\text{Comp/Runway}}{\text{Runway}}$
 $\frac{8.00}{6.00} \times 7.60 \times 2.00 \text{ m} = 20 = 27 + \frac{8.00}{6.00} \times 18.50 = 24.57$ $\frac{52}{52} = 06$ $\frac{897}{897} = 00/13$
 $\frac{8.00}{2.00} \times 6.83 \times 7.00 \text{ m} = 191.24 + 800 \times 16.54 \times 1.00 = 66 = 16$ $\frac{406}{406} = 10$ $\frac{8669}{8669} = 50$

D. 1/8 Runway - 8.00 $\frac{\text{Pucca Soil}}{\text{Mtl.}}$ $\frac{\text{Rubble}}{\text{Mtl.}}$ $\frac{\text{Long/Runway}}{\text{Runway}}$ $\frac{\text{Comp/Runway}}{\text{Runway}}$
 $\frac{8.00}{6.00} \times 7.60 \times \text{Long Runway}$ $\frac{83}{83} = 64$ $\frac{809}{809} = 00$
 $\frac{8.00}{2.00} \times 6.83 \times 7.00 \text{ m} = 191.24 + 800 \times 16.54 \times 1.00 = 66 = 16$ $\frac{52}{52} = 06$ $\frac{897}{897} = 00/13$

for steps (mix concrete) - 8.00 $\frac{\text{Pucca Soil}}{\text{Mtl.}}$ $\frac{\text{Rubble}}{\text{Mtl.}}$ $\frac{\text{Long/Runway}}{\text{Runway}}$ $\frac{\text{Comp/Runway}}{\text{Runway}}$
 $\frac{8.00}{4.99} \times 6.83 \times \text{Long Runway} + 0$ $\frac{83}{83} = 64$ $\frac{809}{809} = 00$

for 34112 TYPG Dist (Korampalam) = Total Road - $\frac{\text{Long/Runway}}{\text{Runway}}$ $\frac{\text{Comp/Runway}}{\text{Runway}}$
 $\frac{8.00}{4.59} \times 7.60 \times 4.0 = 52.98 + \frac{8.00}{4.59} \times 18.50 \times 1.0 = 16 = 05$ $\frac{83}{83} = 64$ $\frac{136}{136} = 62$
 $\frac{8.00}{4.59} \times 7.60 \times 4.0 = 52.98 + \frac{8.00}{4.59} \times 18.50 \times 1.0 = 16 = 05$ $\frac{83}{83} = 64$ $\frac{136}{136} = 62$

Less one and a half - 330.94 = 285.89 (A) $\frac{\text{Long/Runway}}{\text{Runway}}$ $\frac{\text{Comp/Runway}}{\text{Runway}}$
 $\frac{8.00}{4.59} \times 7.60 \times 4.0 = 52.98 + \frac{8.00}{4.59} \times 18.50 \times 1.0 = 16 = 05$ $\frac{83}{83} = 64$ $\frac{136}{136} = 62$

Railway Approach - 1.166 $\frac{\text{Long/Runway}}{\text{Runway}}$ $\frac{\text{Comp/Runway}}{\text{Runway}}$
 $\frac{8.00}{4.99} \times 9.20 \times 1.0 \text{ km} = 16 = 05$ $\frac{83}{83} = 64$ $\frac{136}{136} = 62$
 Railway Approach - Add 15% - 1.166 $\frac{\text{Long/Runway}}{\text{Runway}}$ $\frac{\text{Comp/Runway}}{\text{Runway}}$
 $\frac{8.00}{4.99} \times 9.20 \times 1.0 \text{ km} = 16 = 05$ $\frac{83}{83} = 64$ $\frac{136}{136} = 62$

Add 67.0 Hc - 1.743 $\frac{\text{Long/Runway}}{\text{Runway}}$ $\frac{\text{Comp/Runway}}{\text{Runway}}$
 $\frac{8.00}{4.99} \times 9.20 \times 1.0 = 16 = 05$ $\frac{83}{83} = 64$ $\frac{136}{136} = 62$
 Add 67.0 Hc - 1.743 $\frac{\text{Long/Runway}}{\text{Runway}}$ $\frac{\text{Comp/Runway}}{\text{Runway}}$

9. Cost of 214 Class B mason 2.0 m by 2.0 m by 2.0 m. 8 = 00 / m³.