



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

2021-22

FLOOD DAMAGED REPORT



L079 Panchyat Bhawan to Harijan Tola

DISTRICT	:-	Samastipur	
DIVISION	:-	Dalsingh Sarai	
BLOCK	:-	Mowa	
TOTAL LENGTH OF ROAD	:-	0.210	KM
TOTAL COST OF PROJECT	:-	6.23	Lac

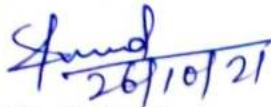
FDR
YEAR (2021-2022)
GENERAL ABSTRACT OF COST

LOCK :- Morwa

DISTRICT :- SAMASTIPUR

NAME OF ROAD :- L079 Panchyat Bhawan to Harijan Tola

S.NO	ITEM OF WORK						AMOUNT	
A								
	TOTAL COST OF CONSTRUCTION					-	Rs.	623278
					SUB TOTAL	-	Rs.	623278


26/10/21

Junior Engineer

RWD (W) Section, Morwa


26/10/21
Assistant Engineer
RWD (W) Sub Division,
Morwa

Executive Engineer
RWD, Works Division,
Dalsinghsarai

SUMMARY OF COST ESTIMAT FOR THE PROJECT

NAME OF ROAD :-L079 Panchyat Bhawan to Harijan Tola

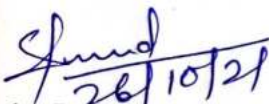
DISTRICT

SAMASTIPUR

BLOCK

Morwa

S.NO	DESCRIPTION	AMOUNT LAKH
1	BAMBOO WORK	96358.2087
2	BRICK BATS	455215.320
	SUB TOTAL:-	551573.529
	12% GST on Total Amount:-	66188.823
	1% lab cess	5515.735
	Total Cost (including GST and Labour Cess	623278.087


26/10/21
Junior Engineer


26/10/21
Assistant Engineer

Executive Engineer

ΕΠΙΧΕΙΡΗΣΙΑΚΟ ΠΡΟΓΡΑΜΜΑ

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 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. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.

| 2.3 | <h1>Site Photographs</h1> | |
|-----|--|---|
| | NAME OF ROAD : L079 Panchyat Bhawan Harijan Tola
DISTRICT ; Samastipur | |
| 1 |  <p>Location: L079 Panchyat Bhawan Harijan Tola
 Longitude: 85.57762
 Latitude: 25.68392
 Altitude: 11.5 m
 Time: 20/08/2021 15:29
 Name: L079 Panchyat Bhawan Harijan Tola</p> | 2 |
| 3 |  <p>Location: L079 Panchyat Bhawan Harijan Tola
 Longitude: 85.57762
 Latitude: 25.68392
 Altitude: 11.5 m
 Time: 20/08/2021 15:29
 Name: L079 Panchyat Bhawan Harijan Tola</p> | 4 |
| 5 |  <p>Location: L079 Panchyat Bhawan Harijan Tola
 Longitude: 85.57762
 Latitude: 25.68392
 Altitude: 11.5 m
 Time: 20/08/2021 15:29
 Name: L079 Panchyat Bhawan Harijan Tola</p> | 6 |
| 7 |  <p>Location: L079 Panchyat Bhawan Harijan Tola
 Longitude: 85.57762
 Latitude: 25.68392
 Altitude: 11.5 m
 Time: 20/08/2021 15:29
 Name: L079 Panchyat Bhawan Harijan Tola</p> | 8 |

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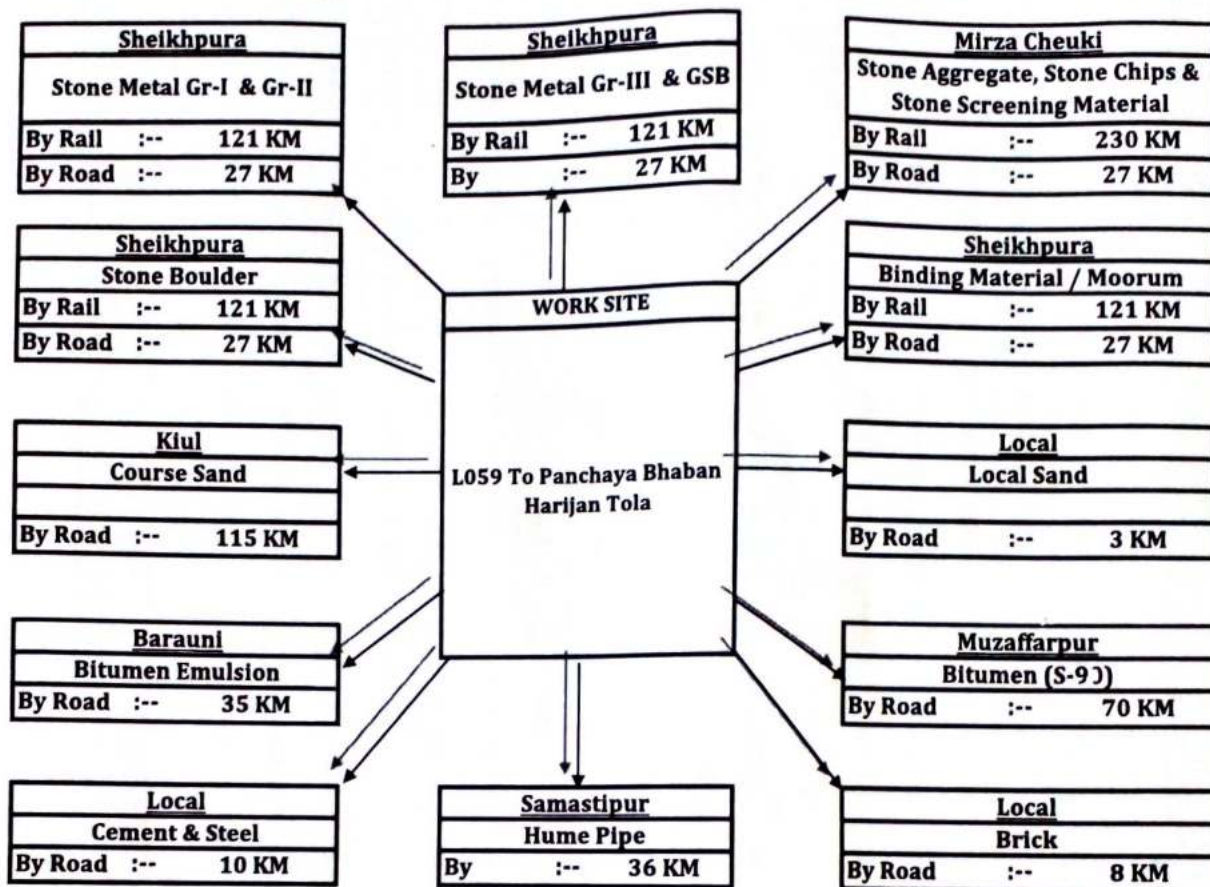
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Figure -3

Quarry Map

Name of Road :-- L059 To Panchaya Bhaban Harijan Tola
 Block :-- Ujiarpur
 District :-- Samastipur

Length of the Road:- 1.759 KM



* Subjected to Verification of Lead

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S.E.

Analysis for Carriage by Road & Rail

Name of Road:-- L059 To Panchaya Bhaban Harijan Tola

District:- Samastipur

Block :- Ujiarpur

| Sl No | Item with Source | Unit | Source Up to | Carriage Cost & Ld in Km | | Katcha | | Loading & Unloading Cost | Carriage Cost by Rail Head | Total ₹ | Total ₹ Minimum |
|-------|---|----------|--------------|---|--|--------|--|--------------------------|----------------------------|-------------|-----------------|
| | | | | Pucka / Surface | | | | | | | |
| 1 | Stone Metal Gr-I & Gr-II (Sheikhpura by Rail 121 Km) | Cum | Sheikhpura | $\frac{8.00}{4.59} \times 10.10 \times 27.00 \text{ Km} = \text{Rs } 475.29$ | $\frac{8.00}{4.59} \times 24.30 \times 0.00 \text{ Km} = \text{Rs } 0.00$ | | | 105.12 | 1025.87 | Rs. 1606.28 | Rs. 1606.28 |
| | Stone Metal Gr-I & Gr-II | Cum | Sheikhpura | $\frac{8.00}{4.59} \times 7.94 \times 116.00 \text{ Km} = \text{Rs } 1605.30$ | $\frac{8.00}{4.59} \times 19.22 \times 0.00 \text{ Km} = \text{Rs } 0.00$ | | | 210.19 | | Rs. 1815.49 | |
| 2 | Stone Metal Gr-III (Sheikhpura by Rail 121 Km) | Cum | Sheikhpura | $\frac{8.00}{4.99} \times 10.10 \times 27.00 \text{ Km} = \text{Rs } 437.19$ | $\frac{8.00}{4.99} \times 24.30 \times 0.00 \text{ Km} = \text{Rs } 0.00$ | | | 105.12 | 1128.34 | Rs. 1670.65 | Rs. 1670.65 |
| | Stone Metal Gr-III | Cum | Sheikhpura | $\frac{8.00}{4.99} \times 7.94 \times 116.00 \text{ Km} = \text{Rs } 1476.62$ | $\frac{8.00}{4.99} \times 19.22 \times 0.00 \text{ Km} = \text{Rs } 0.00$ | | | 210.19 | 1128.34 | Rs. 2815.15 | |
| 3 | Stone Aggregate / Chips (Mirza Chowki by Rail 230 Km) | Cum | Sheikhpura | $\frac{8.00}{4.99} \times 10.10 \times 27.00 \text{ Km} = \text{Rs } 437.19$ | $\frac{8.00}{4.99} \times 24.30 \times 0.00 \text{ Km} = \text{Rs } 0.00$ | | | 105.12 | 1588.15 | Rs. 2130.46 | Rs. 2130.46 |
| | Stone Aggregate / Chips | Cum | Sheikhpura | $\frac{8.00}{4.99} \times 7.94 \times 116.00 \text{ Km} = \text{Rs } 1476.62$ | $\frac{8.00}{4.99} \times 19.22 \times 0.00 \text{ Km} = \text{Rs } 0.00$ | | | 210.19 | 1588.15 | Rs. 3274.96 | |
| 4 | Stone Boulder (Sheikhpura by Rail 121 Km) | Cum | Sheikhpura | $\frac{8.00}{4.80} \times 10.10 \times 27.00 \text{ Km} = \text{Rs } 454.50$ | $\frac{8.00}{4.80} \times 24.30 \times 0.00 \text{ Km} = \text{Rs } 0.00$ | | | 105.12 | 1159.81 | Rs. 1719.43 | Rs. 1719.43 |
| | Stone Boulder | Cum | Sheikhpura | $\frac{8.00}{4.80} \times 7.94 \times 116.00 \text{ Km} = \text{Rs } 1535.07$ | $\frac{8.00}{4.80} \times 19.22 \times 0.00 \text{ Km} = \text{Rs } 0.00$ | | | 210.19 | 1159.81 | Rs. 2905.07 | |
| 5 | Course Sand | Cum | Kiul | $\frac{8.00}{4.99} \times 7.94 \times 115.00 \text{ Km} = \text{Rs } 1463.89$ | $\frac{8.00}{4.99} \times 19.22 \times 0.00 \text{ Km} = \text{Rs } 0.00$ | | | 113.67 | | Rs. 1577.56 | Rs. 1577.56 |
| 6 | Binding Material/Moorum (Sheikhpura by Rail 121 Km) | Cum | Sheikhpura | $\frac{8.00}{6.00} \times 10.10 \times 27.00 \text{ Km} = \text{Rs } 363.60$ | $\frac{8.00}{6.00} \times 24.30 \times 0.00 \text{ Km} = \text{Rs } 0.00$ | | | 113.67 | 851.49 | Rs. 1328.76 | Rs. 1328.76 |
| | Binding Material/Moorum | Cum | Sheikhpura | $\frac{8.00}{6.00} \times 7.94 \times 116.00 \text{ Km} = \text{Rs } 1228.05$ | $\frac{8.00}{6.00} \times 19.22 \times 0.00 \text{ Km} = \text{Rs } 0.00$ | | | 66.31 | 851.49 | Rs. 2145.85 | |
| 7 | Local Sand | Cum | Local | $\frac{8.00}{4.99} \times 10.10 \times 2.00 \text{ Km} = \text{Rs } 32.38$ | $\frac{8.00}{4.99} \times 24.30 \times 1.00 \text{ Km} = \text{Rs } 38.96$ | | | 113.67 | | Rs. 185.01 | Rs. 185.01 |
| 8 | Brick | 1000 Nos | Local | $\frac{8.00}{2.00} \times 7.94 \times 7.00 \text{ Km} = \text{Rs } 222.32$ | $\frac{8.00}{2.00} \times 19.22 \times 1.00 \text{ Km} = \text{Rs } 76.88$ | | | 477.44 | | Rs. 776.64 | Rs. 776.64 |
| 9 | Cement | MT | Local | $\frac{8.00}{8.00} \times 7.94 \times 10.00 \text{ Km} = \text{Rs } 79.40$ | $\frac{8.00}{8.00} \times 19.22 \times 0.00 \text{ Km} = \text{Rs } 0.00$ | | | 347.32 | | Rs. 426.72 | Rs. 426.72 |
| 10 | Steel | MT | Local | $\frac{8.00}{8.00} \times 7.94 \times 10.00 \text{ Km} = \text{Rs } 79.40$ | $\frac{8.00}{8.00} \times 19.22 \times 0.00 \text{ Km} = \text{Rs } 0.00$ | | | 370.58 | | Rs. 449.98 | Rs. 449.98 |
| 11 | Bitumen Emulsion | MT | Barauni | $\frac{8.00}{8.00} \times 7.94 \times 35.00 \text{ Km} = \text{Rs } 277.90$ | $\frac{8.00}{8.00} \times 19.22 \times 0.00 \text{ Km} = \text{Rs } 0.00$ | | | 396.98 | | Rs. 674.88 | Rs. 674.88 |
| 12 | Bitumen | MT | Muzaffarpur | $\frac{8.00}{8.00} \times 7.94 \times 70.00 \text{ Km} = \text{Rs } 555.80$ | $\frac{8.00}{8.00} \times 19.22 \times 0.00 \text{ Km} = \text{Rs } 0.00$ | | | 396.98 | | Rs. 952.78 | Rs. 952.78 |
| 13 | Hume Pipe (1000 mm) | m | Samastipur | $\frac{8.00}{10.00} \times 7.94 \times 36.00 \text{ Km} = \text{Rs } 228.67$ | $\frac{8.00}{10.00} \times 19.22 \times 0.00 \text{ Km} = \text{Rs } 0.00$ | | | 70.84 | | Rs. 299.51 | Rs. 299.51 |
| 14 | Hume Pipe (600 mm) | m | Samastipur | $\frac{8.00}{25.00} \times 7.94 \times 36.00 \text{ Km} = \text{Rs } 91.47$ | $\frac{8.00}{25.00} \times 19.22 \times 0.00 \text{ Km} = \text{Rs } 0.00$ | | | 30.36 | | Rs. 121.83 | Rs. 121.83 |
| 15 | Hume Pipe (300 mm) | m | Samastipur | $\frac{8.00}{60.00} \times 7.94 \times 36.00 \text{ Km} = \text{Rs } 38.11$ | $\frac{8.00}{60.00} \times 19.22 \times 0.00 \text{ Km} = \text{Rs } 0.00$ | | | 30.36 | | Rs. 68.47 | Rs. 68.47 |

Cost of Haulage Excluding Loading & Unloading as per SOR aa

| Type of Road | ₹ Per Ton. Km by Tipper | ₹ Per Ton. Km by Truck |
|-----------------------|-------------------------|------------------------|
| For Surface Road | 10.10 | 7.94 |
| Unsurface Gravel Road | 12.10 | 9.55 |
| Kachha Road | 24.30 | 19.22 |

* Subjected to Verification of Lead

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FORM F8

Analysis for Carriage Through Railway from Quarry Site to Work Site

Sheikhpura to Karpurigram

Material -Stone Metal Gr-I & Gr-II

Quarry Site to Sheikhpura Railway Yard (By Road)

| Pucka / Surface | | Carriage Cost & Lead in Km | | Katcha | | Loading & Unloading | | Total |
|------------------------------------|---------|----------------------------|------------|-----------------------|---------|---------------------|-----------|-------------------------|
| $\frac{8.00}{4.59}$ | x 10.10 | x 4.00 Km | = Rs 70.41 | + $\frac{8.00}{4.59}$ | x 24.30 | x 0.00 Km | = Rs 0.00 | + Rs 105.12 = Rs 175.53 |
| UnSurface | | $\frac{8.00}{4.59}$ | x 12.10 | x 1.00 Km | | | = | Rs 21.09 |
| Loading & Unloading Cost by manual | | | | | | = Rs 210.19 | | Rs 210.19 |
| | | | | | | Total = | | Rs 406.81 |
| Less for O.H & C.P | | = Rs 406.81 / 1.166 | | | | = Rs 348.89 | | Total "A" = Rs 348.89 |

Sheikhpura Railway Yard to Karpurigram

Railway Yard = 121.00 Km

Railway freight charge from Sheikhpura Railway station to Karpurigram Railway station

= For 1 MT 121.00 Km

= Rs 231.30 = Rs 231.30

Busy Season charge 15% of Railway freight charge

= For 1 MT

= 15% = Rs 34.70

Railway Development Charge to 5% of Railway freight Charge

For 1 MT

= 5% = Rs 11.57

Terminal charge @Rs.40.00 per Terminal per MT

For 1 MT

x Rs 40.00 = Rs 0.00

GST 0 % "(4% included in Overhead Charges) = Rs 277.57 x 0%

= Rs 0.00

Total

= For 1 MT

= Rs 277.57

Rail Freight = 1.743 x Rs 277.57

For 1 MT

"B" = Rs 483.80

Gross Cost for Railway freight charge "A" + "B"

For 1 MT

= Rs 761.37

Add 12% Overhead Charge

= 12% = Rs 99.92

Add 10% Contractor Profit

= 10% = Rs 93.26

Carriage Cost from Quarry to Karpurigram Railway Yard

For 1 Cum

= Rs 1025.87

Analysis for Carriage Through Railway from Quarry Site to Work Site

Sheikhpura to Karpurigram

Material -Stone Metal Gr-III / GSB

Quarry Site to Sheikhpura Railway Yard (By Road)

| Pucka / Surface | | Carriage Cost & Lead in Km | | Katcha | | Loading & Unloading | | Total |
|------------------------------------|---------|----------------------------|------------|-----------------------|---------|---------------------|-----------|-------------------------|
| $\frac{8.00}{4.99}$ | x 10.10 | x 4.00 Km | = Rs 64.77 | + $\frac{8.00}{4.99}$ | x 24.30 | x 0.00 Km | = Rs 0.00 | + Rs 105.12 = Rs 169.89 |
| UnSurface | | $\frac{8.00}{4.99}$ | x 12.10 | x 1.00 Km | | | = | Rs 19.40 |
| Loading & Unloading Cost by manual | | | | | | = Rs 210.19 | | Rs 210.19 |
| | | | | | | Total = | | Rs 399.48 |
| Less for O.H & C.P | | = Rs 399.48 / 1.166 | | | | = Rs 342.61 | | Total "A" = Rs 342.61 |

Sheikhpura Railway Yard to Karpurigram

Railway Yard = 121.00 Km

| | | | | |
|---|----------------------------------|-----------|--------------|---------------------|
| Railway freight charge from Sheikhpura Railway station to Karpurigram Railway station | = For 1 MT | 121.00 Km | = Rs 231.30 | = Rs 231.30 |
| Busy Season charge 15% of Railway freight charge | = For 1 MT | | = 15% | = Rs 34.70 |
| Railway Development Charge to 5% of Railway freight Charge | For 1 MT | | = 5% | = Rs 11.57 |
| Terminal charge @Rs.40.00 per Terminal per MT | For 1 MT | 2 | x Rs 40.00 | = Rs 80.00 |
| GST 0 % "(4% Included In Overhead Charges) = Rs 357.57 x 0% | | | | = Rs 0.00 |
| Total | For 1 MT | | | = Rs 357.57 |
| Rail Freight = 1.603 x Rs 357.57 | For 1 MT | | "B" | = Rs 573.00 |
| Gross Cost for Railway freight charge "A" + "B" | For 1 MT | | | = Rs 930.57 |
| | Add 12% Overhead Charge | | = 12% | = Rs 109.27 |
| | Add 10% Contractor Profit | | = 10% | = Rs 102.56 |
| Carriage Cost from Quarry to Karpurigram Railway Yard | For 1 Cum | | | = Rs 1128.40 |

Analysis for Carriage Through Railway from Quarry Site to Work Site

Mirza Chowki to Karpurigram

Material -Stone Aggregate / Chips

Quarry Site to Mirza Chowki Railway Yard (By Road)

| Pucka / Surface | Carriage Cost & Lead in Km | | Katcha | Loading & Unloading | Total |
|---|----------------------------|-------|---------------------|---------------------|--------------------|
| 8.00
4.99 x 10.10 x 4.00 Km = Rs 64.77 | + 8.00
4.99 x | 24.30 | x 0.00 Km = Rs 0.00 | + Rs 105.12 | = Rs 169.89 |
| UnSurface | 8.00
4.99 x | 12.10 | x 1.00 Km | | = Rs 19.40 |
| Loading & Unloading Cost by manual | | | | | = Rs 210.19 |
| Less for O.H & C.P | = Rs 399.48 / 1.166 | | = Rs 342.61 | Total "A" | = Rs 342.61 |

Mirza Chowki Railway Yard to Karpurigram

Railway Yard = 230.00 Km

| | | | | |
|---|----------------------------------|-----------|--------------|---------------------|
| Railway freight charge from Mirza Chowki Railway station to Karpurigram Railway station | = For 1 MT | 230.00 Km | = Rs 425.30 | = Rs 425.30 |
| Busy Season charge 15% of Railway freight charge | = For 1 MT | | = 15% | = Rs 63.80 |
| Railway Development Charge to 5% of Railway freight Charge | For 1 MT | | = 5% | = Rs 21.27 |
| Terminal charge @Rs.40.00 per Terminal per MT | For 1 MT | 2 | x Rs 40.00 | = Rs 80.00 |
| GST 0 % "(4% Included In Overhead Charges) = Rs 590.37 x 0% | | | | = Rs 0.00 |
| Total | For 1 MT | | | = Rs 590.37 |
| Rail Freight = 1.603 x Rs 590.37 | For 1 MT | | "B" | = Rs 946.48 |
| Gross Cost for Railway freight charge "A" + "B" | For 1 MT | | | = Rs 1289.09 |
| | Add 12% Overhead Charge | | = 12% | = Rs 154.69 |
| | Add 10% Contractor Profit | | = 10% | = Rs 144.38 |
| Carriage Cost from Quarry to Karpurigram Railway Yard | For 1 Cum | | | = Rs 1588.15 |

Analysis for Carriage Through Railway from Quarry Site to Work Site

Sheikhpura to Karpurigram

Material - Stone Boulder

Quarry Site to Sheikhpura Railway Yard (By Road)

| Pucka / Surface | | Carriage Cost & Lead in Km | | Katcha | | Loading & Unloading | | Total |
|------------------------------------|------------------------------|----------------------------|---------------------|-----------------------------|-----------|---------------------|---|-----------|
| $\frac{8.00}{4.80}$ | x 10.10 x 4.00 Km = Rs 67.33 | + | $\frac{8.00}{4.80}$ | x 24.30 x 0.00 Km = Rs 0.00 | + | Rs 105.12 | = | Rs 172.45 |
| UnSurface | | | $\frac{8.00}{4.80}$ | x 12.10 x 1.00 Km | | | = | Rs 20.17 |
| Loading & Unloading Cost by manual | | | | | | Rs 210.19 | = | Rs 210.19 |
| | | | | | | Total | = | Rs 402.81 |
| Less for O.H & C.P | | = | Rs 402.81 / 1.166 | = | Rs 345.46 | Total "A" | = | Rs 345.46 |

Sheikhpura Railway Yard to Karpurigram

Railway Yard = 121.00 Km

Railway freight charge from Sheikhpura Railway station to Karpurigram Railway station

= For 1 MT 121.00 Km = Rs 231.30 = Rs 231.30

Busy Season charge 15% of Railway freight charge

= For 1 MT = 15% = Rs 34.70

Railway Development Charge to 5% of Railway freight Charge

For 1 MT = 5% = Rs 11.57

Terminal charge @Rs.40.00 per Terminal per MT

For 1 MT 2 x Rs 40.00 = Rs 80.00

GST 0 % "(4% included in Overhead Charges) = Rs 357.57 x 0%

= Rs 0.00

Total = For 1 MT

= Rs 357.57

Rail Freight = 1.667 x Rs 357.57

For 1 MT "B" = Rs 595.94

Gross Cost for Railway freight charge "A" + "B"

For 1 MT = Rs 941.41

Add 12% Overhead Charge = 12% = Rs 112.97

Add 10% Contractor Profit = 10% = Rs 105.44

Carriage Cost from Quarry to Karpurigram Railway Yard For 1 Cum = Rs 1159.81

Analysis for Carriage Through Railway from Quarry Site to Work Site

Sheikhpura to Karpurigram

Binding Material /Moorum

Quarry Site to Sheikhpura Railway Yard (By Road)

| Pucka / Surface | | Carriage Cost & Lead in Km | | Katcha | | Loading & Unloading | | Total |
|------------------------------------|------------------------------|----------------------------|---------------------|-----------------------------|-----------|---------------------|---|-----------|
| $\frac{8.00}{6.00}$ | x 10.10 x 4.00 Km = Rs 53.87 | + | $\frac{8.00}{6.00}$ | x 24.30 x 0.00 Km = Rs 0.00 | + | Rs 66.31 | = | Rs 120.18 |
| UnSurface | | | $\frac{8.00}{6.00}$ | x 12.10 x 1.00 Km | | | = | Rs 16.13 |
| Loading & Unloading Cost by manual | | | | | | Rs 113.67 | = | Rs 113.67 |
| | | | | | | Total | = | Rs 249.98 |
| Less for O.H & C.P | | = | Rs 249.98 / 1.166 | = | Rs 214.39 | Total "A" | = | Rs 214.39 |

Sheikhpura Railway Yard to Karpurigram

Railway Yard = 121.00 Km

| | | | | |
|---|-------------|----------------------------------|-----------------|-------------------------------|
| Railway freight charge from Sheikhpura Railway station to Karpurigram Railway station | = For 1 MT | 121.00 Km | = Rs 231.30 = | Rs 231.30 |
| Busy Season charge 15% of Railway freight charge | = For 1 MT | | = 15% = | Rs 34.70 |
| Railway Development Charge to 5% of Railway freight Charge | For 1 MT | | = 5% = | Rs 11.57 |
| Terminal charge @Rs.40.00 per Terminal per MT | For 1 MT | 2 | x Rs 40.00 = | Rs 80.00 |
| GST 0 % "(4% included in Overhead Charges) = | Rs 357.57 x | 0% | = | Rs 0.00 |
| Total | = | For 1 MT | = | Rs 357.57 |
| Rail Freight = | 1.333 x | Rs 357.57 | For 1 MT | "B" = Rs 476.75 |
| Gross Cost for Railway freight charge "A" + "B" | | For 1 MT | = | Rs 634.32 |
| | | Add 12% Overhead Charge | = 12% = | Rs 82.94 |
| | | Add 10% Contractor Profit | = 10% = | Rs 77.41 |
| Carriage Cost from Quarry to Karpurigram Railway Yard | | For 1 Cum | = | Rs 851.49 |

Analysis of Rates (FORMAT F8)

| Sl. No. | SDB Sl. No. | MORD Ref No. | DESCRIPTION | Unit | Quantity | Rate | Amount in Rs |
|--------------------------|-------------|--------------|---|------------|----------|---------|--------------|
| Haulage BY TIPPER | | | | | | | |
| 1 | 1.10 | (i) | Haulage excluding Loading & Unloading
Haulage of materials by tipper excluding cost of loading, unloading and stacking.
Unit = t.km
Taking output 10 t load and lead 10 km = 100 t.km
Case-I : Surfaced Road
Speed with load: 25 km per hour
Speed while returning empty: 35 km per hour | | | | |
| | | a) | Machinery
Tipper 10 t capacity
Haulage with load | hour | 0.40 | 1183.00 | 473.20 |
| | | | Empty return trip | hour | 0.29 | 1183.00 | 343.07 |
| | | b) | Overheads @ 12% | | | | 97.95 |
| | | c) | Contractor's profit @ 10% on (a+b) | | | | 91.42 |
| | | | Cost for 100 t-km = a+b+c | | | | 1005.64 |
| | | | Rate per cum = (a+b+c) / 100 | | | | 10.06 |
| | | | Rate Per Km. | Cum | | | 10.10 |
| 2 | 1.10 | (ii) | Haulage excluding Loading & Unloading
Haulage of materials by tipper excluding cost of loading, unloading and stacking.
Unit = t.km
Taking output 10 t load and lead 10 km = 100 t.km
Case-II: Unsurfaced Gravel Road.
Speed with load: 20 km/hour
Speed for empty return trip: 30 km/hour | | | | |
| | | a) | Machinery
Tipper 10 t capacity
Haulage with load | hour | 0.50 | 1183.00 | 591.50 |
| | | | Empty return trip | hour | 0.33 | 1183.00 | 390.39 |
| | | b) | Overheads @ 12% | | | | 117.83 |
| | | c) | Contractor's profit @ 10% on (a+b) | | | | 109.97 |
| | | | Cost for 100 t-km = a+b+c | | | | 1209.69 |
| | | | Rate per cum = (a+b+c) / 100 | | | | 12.10 |
| | | | Rate Per Km. | Cum | | | 12.10 |
| 3 | 1.10 | (iii) | Haulage excluding Loading & Unloading
Haulage of materials by tipper excluding cost of loading, unloading and stacking.
Unit = t.km
Taking output 10 t load and lead 10 km = 100 t.km
Case-III : Katcha Track and Track in River Bed/Nallah Bed and Choe Bed.
Speed with load: 10 km per hour
Speed while returning empty: 15 km per hour | | | | |
| | | a) | Machinery
Tipper 10 t capacity
Haulage with load | hour | 1.00 | 1183.00 | 1183.00 |
| | | | Empty return trip | hour | 0.67 | 1183.00 | 792.61 |
| | | b) | Overheads @ 12% | | | | 237.07 |
| | | c) | Contractor's profit @ 10% on (a+b) | | | | 221.27 |
| | | | Cost for 100 t-km = a+b+c | | | | 2433.95 |
| | | | Rate per cum = (a+b+c) / 100 | | | | 24.34 |
| | | | Rate Per Km. | Cum | | | 24.30 |
| Haulage BY TRUCK | | | | | | | |
| 4 | 1.10 | (i) | Haulage excluding Loading & Unloading
Haulage of materials by tipper excluding cost of loading, unloading and stacking. | | | | |

Analysis of Rates (FORMAT F8)

| Sl. No. | SDB Sl. No. | MORD Ref No. | DESCRIPTION | Unit | Quantity | Rate | Amount | |
|---------|-------------|--------------|---|--------------|---|------------------|---|----------------------------|
| | | | Unit = t.km
Taking output 10 t load and lead 10 km = 100 t.km
Case-I : Surfaced Road
Speed with load: 25 km per hour
Speed while returning empty: 35 km per hour
a) Machinery
Truck 10 t capacity
Haulage with load
Empty return trip
b) Overheads @ 12%
c) Contractor's profit @ 10% on (a+b)
Cost for 100 t-km = a+b+c
Rate per cum = (a+b+c) / 100 | hour
hour | 0.40
0.29 | 934.30
934.30 | 373.72
270.95
77.36
72.20
794.23
7.94
7.94 | |
| | | | Rate Per Km. | Cum | | | | |
| 5 | 1.10 | (ii) | Haulage excluding Loading & Unloading
Haulage of materials by tipper excluding cost of loading, unloading and stacking.
Unit = t.km
Taking output 10 t load and lead 10 km = 100 t.km
Case-II: Unsurfaced Gravel Road.
Speed with load: 20 km/hour
Speed for empty return trip: 30 km/hour
a) Machinery
Truck 10 t capacity
Haulage with load
Empty return trip
b) Overheads @ 12%
c) Contractor's profit @ 10% on (a+b)
Cost for 100 t-km = a+b+c
Rate per cum = (a+b+c) / 100 | hour
hour | 0.50
0.33 | 934.30
934.30 | 467.15
308.32
93.06
86.85
955.38
9.55
9.55 | |
| | | | Rate Per Km. | Cum | | | | |
| 6 | 1.10 | (iii) | Haulage excluding Loading & Unloading
Haulage of materials by tipper excluding cost of loading, unloading and stacking.
Unit = t.km
Taking output 10 t load and lead 10 km = 100 t.km
Case-III : Katcha Track and Track in River Bed/Nallah Bed and Choe Bed.
Speed with load: 10 km per hour
Speed while returning empty: 15 km per hour
a) Machinery
Truck 10 t capacity
Haulage with load
Empty return trip
b) Overheads @ 12%
c) Contractor's profit @ 10% on (a+b)
Cost for 100 t-km = a+b+c
Rate per cum = (a+b+c) / 100 | hour
hour | 1.00
0.67 | 934.30
934.30 | 934.30
625.98
187.23
174.75
1922.27
19.22
19.22 | |
| | | | Rate Per Km. | Cum | | | | |
| 7 | 1.10 | RCD | Loading and Unloading of Stone Boulder/Stone aggregates/Sand/Kanker/Moorum.
Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and
Unit = cum
Taking output = 5.5 cum
Time required for
i) Positioning of tipper at loading point
ii) Loading by front end loader 1 cum bucket capacity @ 25 cum per hour
iii) Maneuvering, reversing, dumping and turning for return
iv) Waiting time, unforeseen contingencies etc
Total
a) Machinery
Tipper 5.5 tonnes capacity
Front end-loader 1 cum bucket capacity @ 25 cum/hour
Overheads @ 12% | hour
hour | 1 Min
13 Min

2 Min
4 Min
20 Min | 0.33
0.33 | 1183.00
1403.00 | 390.39
462.99
102.41 |

Analysis of Rates (FORMAT F8)

| Sl. No. | SDB Sl. No. | MORD Ref No. | DESCRIPTION | Unit | Quantity | Rate | Amount in Rs |
|---------|-------------|--------------|--|--------------------|----------------------|-----------------------------|---|
| | | | c) Contractor's profit @ 10% on (a+b)
Cost for 5.5 cum = a+b+c
Rate per cum = (a+b+c) / 5.5 | | | | 95.58
1051.36
191.16 |
| | | | Unloading will be by tipping. | | | say | 191.20 |
| 8 | 1.20 | RCD | Loading and Unloading of Boulders by Manual Means
Unit = cum
Taking output = 5.5 cum
a) Labour
Mate
Mazdoor for loading and unloading
b) Machinery
Tipper 5.5 tonne capacity
Overheads @ 12%
d) Contractor's profit @ 10% on (a+b+c)
Cost for 5.5 cum = a+b+c+d
Rate per cum = (a+b+c+d) / 5.5 | day
day
hour | 0.11
0.75
0.75 | 321.00
304.00
1183.00 | 35.31
228.00
887.25
138.07
128.86
1417.49
257.73 |
| | | | Unloading will be by tipping. | | | say | 257.75 |
| 9 | 1.30 | RCD | Loading and Unloading of Cement or Steel by Manual Means and
Unit = tonne
Taking output = 10 tonnes
a) Labour
Mate
Mazdoor for loading and unloading
b) Machinery
Truck 10 tonne capacity
Overheads @ 12%
d) Contractor's profit @ 10% on (a+b+c)
Cost for 10 tonnes = a+b+c+d
Rate per tonnes = (a+b+c+d) / 10 | day
day
hour | 0.08
2.00
2.00 | 321.00
304.00
934.30 | 25.68
608.00
1868.60
300.27
280.26
3082.81
308.28 |
| | | | | | | say | 308.30 |
| 10 | 1.1 | (i) | Loading of Lime, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Crushed Slag, Stone for Masonry Work by manual means including a lead upto 30 m
Unit = cum
Taking output = 5.5 cum
a) Labour
Mate
Mazdoor (Unskilled)
b) Machinery
Truck
c) Overheads @ 12%
d) Contractor's profit @ 10% on (a+b+c)
Cost for 5.5 cum = a+b+c+d
Rate per cum = (a+b+c+d) / 5.5 | day
day
hour | 0.02
0.50
0.50 | 321.00
304.00
934.30 | 6.42
152.00
467.15
75.07
70.06
770.70
140.13 |
| | | | Total Cost | Cum | | | 140.13 |
| 11 | | (ii) | Loading of Earth, Sand, Moorum, Manure, Flyash by manual means including a lead upto 30 m.
Unit = cum
Taking output = 5.5 cum
a) Labour
Mate
Mazdoor (Unskilled)
b) Machinery
Truck
c) Overheads @ 12%
d) Contractor's profit @ 10% on (a+b+c)
Cost for 5.5 cum = a+b+c+d
Rate per cum = (a+b+c+d) / 5.5 | day
day
hour | 0.01
0.25
0.25 | 321.00
304.00
934.30 | 3.21
76.00
233.58
37.53
35.03
385.35
70.06 |
| | | | Total Cost | Cum | | | 70.06 |
| 12 | | (iii) | Unloading of Lime, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Crushed Slag, Stone for Masonry Work by mechanical means including a lead upto 30 m
Unit = cum
Taking output = 5.5 cum
a) Labour
Mate | day | 0.01 | 321.00 | 3.21 |

Analysis of Rates (FORMAT F8)

| Sl. No. | SDB Sl. No. | MORD Ref. No. | DESCRIPTION | Unit | Quantity | Rate |
|---------|-------------|---------------|---|-------------------|------------|----------------------------|
| | | | | day | 0.25 | 304.00 |
| | | b) | Mazdoor (Unskilled) | hour | 0.25 | 934.30 |
| | | | Machinery | | | |
| | | c) | Truck | | | |
| | | c) | Overheads @ 12% | | | |
| | | d) | Contractor's profit @ 10% on (a+b+c) | | | |
| | | | Cost for 5.5 cum = a+b+c+d | | | |
| | | | Rate per cum = (a+b+c+d) / 5.5 | Total Cost | Cum | |
| | | | | | Cum | = 140.13 + 70.06 = |
| | | | Total Loding & Unloading of Stone Aggregate | | | |
| 13 | | (iv) | Unloading of Earth, Sand, Moorum, Manure, Flyash by manual means including a lead upto 30 m.
Unit = cum
Taking output = 5.5 cum | | | |
| | | a) | Labour | day | 0.01 | 321.00 |
| | | | Mate | day | 0.13 | 304.00 |
| | | b) | Mazdoor (Unskilled) | hour | 0.17 | 934.30 |
| | | | Machinery | | | |
| | | c) | Truck | | | |
| | | c) | Overheads @ 12% | | | |
| | | d) | Contractor's profit @ 10% on (a+b+c) | | | |
| | | | Cost for 5.5 cum = a+b+c+d | | | |
| | | | Rate per cum = (a+b+c+d) / 5.5 | Total Cost | Cum | |
| | | | | | Cum | = 70.06 + 43.61 = |
| | | | Total Loding & Unloading of Sand / Moorum | | | |
| 14 | 1.3 | | Loading, Unloading and Stacking of Bricks by Manual Means | | | |
| | | (i) | Loading of Bricks by manual means including a lead upto 30 m
Unit = 1000 Nos.
Taking output = 2000 Nos. | | | |
| | | a) | Labour | day | 0.01 | 321.00 |
| | | | Mate | day | 0.25 | 304.00 |
| | | b) | Mazdoor (Unskilled) | hour | 0.33 | 934.30 |
| | | | Machinery | | | |
| | | c) | Truck | | | |
| | | c) | Overheads @ 12% | | | |
| | | d) | Contractor's profit @ 10% on (a+b+c) | | | |
| | | | Cost for 2000 Nos. = a+b+c+d | | | |
| | | | Rate for 1000 bricks = (a+b+c+d)/2 | Total Cost | no. | |
| 15 | | (ii) | Unloading and Stacking of Bricks by manual means including a lead upto 30 m
Unit = 1000 Nos.
Taking output = 2000 Nos. | | | |
| | | a) | Labour | day | 0.01 | 321.00 |
| | | | Mate | day | 0.25 | 304.00 |
| | | b) | Mazdoor (Unskilled) | hour | 0.33 | 934.30 |
| | | | Machinery | | | |
| | | c) | Truck | | | |
| | | c) | Overheads @ 12% | | | |
| | | d) | Contractor's profit @ 10% on (a+b+c) | | | |
| | | | Cost for 2000 Nos. = a+b+c+d | | | |
| | | | Rate for 1000 bricks = (a+b+c+d)/2 | Total Cost | no. | |
| | | | | | | = 238.72 + 238.72 = |
| | | | Total Loding & Unloading of Brick Per 1000 | | | |
| 16 | | (i) | Loading and Unloading of Cement by Manual Means | | | |
| | | | Loading of Cement by manual means including a lead upto 30 m
Unit = t
Taking output = 10 t | | | |
| | | a) | Labour | day | 0.06 | 321.00 |
| | | | Mate | day | 1.50 | 304.00 |
| | | | Mazdoor (Unskilled) | | | |

Analysis of Rates (FORMAT F8)

| Sl. No. | SDB Sl. No. | MORD Ref No. | DESCRIPTION | Unit | Quantity | Rate | Amount in Rs |
|---------|-------------|--------------|--|------|----------|--------|--------------|
| | | b) | Machinery | | | | |
| | | | Truck | hour | 1.00 | 934.30 | 934.30 |
| | | c) | Overheads @ 12% | | | | 169.15 |
| | | d) | Contractor's profit @ 10% on (a+b+c) | | | | 157.87 |
| | | | Cost for 10 t = a+b+c+d | | | | 1736.58 |
| | | | Rate per tonnes = (a+b+c+d)/10 | | | | 173.66 |
| 17 | | | Total Cost including | t | | | 173.66 |
| | | (ii) | Unloading of Cement by manual means including a lead upto 30 m | | | | |
| | | | Unit = t | | | | |
| | | | Taking output = 10 t | | | | |
| | | a) | Labour | | | | |
| | | | Mate | day | 0.06 | 321.00 | 19.26 |
| | | | Mazdoor (Unskilled) | day | 1.50 | 304.00 | 456.00 |
| | | b) | Machinery | | | | |
| | | | Truck | hour | 1.00 | 934.30 | 934.30 |
| | | c) | Overheads @ 12% | | | | 169.15 |
| | | d) | Contractor's profit @ 10% on (a+b+c) | | | | 157.87 |
| | | | Cost for 10 t = a+b+c+d | | | | 1736.58 |
| | | | Rate per tonne = (a+b+c+d)/10 | | | | 173.66 |
| | | | Total Cost | t | | | 173.66 |
| 18 | 1.5 | | Total Lodging & Unloading of Cement | t | | | 347.32 |
| | | | Loading and Unloading of Structural Steel and Steel Bars by manual means | | | | |
| | | (i) | Loading of Structural Steel, Steel Bars by manual means including a lead upto 30 m | | | | |
| | | | Unit = t | | | | |
| | | | Taking output = 10 t | | | | |
| | | a) | Labour | | | | |
| | | | Mate | day | 0.07 | 321.00 | 22.47 |
| | | | Mazdoor (Unskilled) | day | 1.80 | 304.00 | 547.20 |
| | | b) | Machinery | | | | |
| | | | Truck | hour | 1.00 | 934.30 | 934.30 |
| | | c) | Overheads @ 12% | | | | 180.48 |
| | | d) | Contractor's profit @ 10% on (a+b+c) | | | | 168.44 |
| | | | Cost for 10 t = a+b+c+d | | | | 1852.89 |
| | | | Rate per tonnes = (a+b+c+d)/10 | | | | 185.29 |
| | | | Total Cost | t | | | 185.29 |
| 19 | | (ii) | Unloading of Structural Steel, Steel Bars by manual means including a lead upto 30 m | | | | |
| | | | Unit = t | | | | |
| | | | Taking output = 10 t | | | | |
| | | a) | Labour | | | | |
| | | | Mate | day | 0.07 | 321.00 | 22.47 |
| | | | Mazdoor (Unskilled) | day | 1.80 | 304.00 | 547.20 |
| | | b) | Machinery | | | | |
| | | | Truck | hour | 1.00 | 934.30 | 934.30 |
| | | c) | Overheads @ 12% | | | | 180.48 |
| | | d) | Contractor's profit @ 10% on (a+b+c) | | | | 168.44 |
| | | | Cost for 10 t = a+b+c+d | | | | 1852.89 |
| | | | Rate per t = (a+b+c+d)/10 | | | | 185.29 |
| | | | Total Cost | t | | | 185.29 |
| | | | Total Lodging & Unloading of Steel | t | | | 370.58 |
| 20 | 1.6 | | Loading and Unloading of Bitumen Drums by Manual Means | | | | |
| | | (i) | Loading of Bitumen Drums by manual means including a lead upto 30 m | | | | |
| | | | Unit = t | | | | |
| | | | Taking output = 10 t | | | | |
| | | a) | Labour | | | | |
| | | | Mate | day | 0.06 | 321.00 | 19.26 |
| | | | Mazdoor (Unskilled) | day | 1.60 | 304.00 | 486.40 |
| | | b) | Machinery | | | | |
| | | | Truck | hour | 1.25 | 934.30 | 1167.88 |
| | | c) | Overheads @ 12% | | | | 200.82 |
| | | d) | Contractor's profit @ 10% on (a+b+c) | | | | 187.44 |
| | | | Cost for 10 t = a+b+c+d | | | | 2061.80 |

Analysis of Rates (FORMAT F8)

| Sl. No. | SDB Sl. No. | MORD Ref No. | DESCRIPTION | Unit | Quantity | Rate | |
|---------|-------------|--------------|---|-------------------|---------------------------|--------|--|
| | | | Rate per tonnes = (a+b+c+d)/10 | Total Cost | t | | |
| 21 | | (ii) | Unloading of Bitumen Drums by Manual Means including a lead upto 30 m
Unit = t
Taking output = 10 t | | | | |
| | | a) | Labour | day | 0.05 | 321.00 | |
| | | | Mate | day | 1.20 | 304.00 | |
| | | b) | Machinery | hour | 1.25 | 934.30 | |
| | | | Truck | | | | |
| | | c) | Overheads @ 12% | | | | |
| | | d) | Contractor's profit @ 10% on (a+b+c) | | | | |
| | | | Cost for 10 t = a+b+c+d | | | | |
| | | | Rate per t = (a+b+c+d)/10 | | | | |
| | | Note :- | The rate is inclusive of the self weight of drum | | | | |
| | | | Total Cost | t | | | |
| | | | Total Loding & Unloading of Bitumen Drums | t | = 206.18 + 190.8 = | | |
| 22 | 1.9 | (I) | Loading and Unloading of Hume Pipes | | | | |
| | | A. | Loading of RCC Hume pipes by mechanical means including a lead upto 30 m
1000 / 1200 mm dia Hume pipe
Unit = per pipe
Taking output = 9 pipes | | | | |
| | | a) | Labour | day | 0.02 | 321.00 | |
| | | | Mate | day | 0.50 | 304.00 | |
| | | b) | Machinery | hour | 0.33 | 934.30 | |
| | | | Truck | hour | 0.33 | 909.00 | |
| | | c) | Overheads @ 12% | | | | |
| | | d) | Contractor's profit @ 10% on (a+b+c) | | | | |
| | | | Cost for 9 pipes = a+b+c+d | | | | |
| | | | Rate per pipe = (a+b+c+d)/9 | | | | |
| | | | Total Cost | per p | | | |
| 23 | | C. | 600/450 mm dia Hume pipe
Unit = per pipe
Taking output = 21 pipe | | | | |
| | | a) | Labour | day | 0.02 | 321.00 | |
| | | | Mate | day | 0.50 | 304.00 | |
| | | b) | Machinery | hour | 0.33 | 934.30 | |
| | | | Truck | hour | 0.33 | 909.00 | |
| | | c) | Overheads @ 12% | | | | |
| | | d) | Contractor's profit @ 10% on (a+b+c) | | | | |
| | | | Cost for 21 pipes = a+b+c+d | | | | |
| | | | Rate per pipe = (a+b+c+d)/21 | | | | |
| | | | Total Cost | per p | | | |
| 24 | | (II) | Unloading of RCC Hume pipe by mechanical means including a lead upto 30 m
1000/1200 mm dia RCC Hume pipes
Unit = per pipe
Taking output = 9 pipes | | | | |
| | | a) | Labour | day | 0.02 | 321.00 | |
| | | | Mate | day | 0.50 | 304.00 | |
| | | b) | Machinery | hour | 0.20 | 934.30 | |
| | | | Truck | hour | 0.20 | 909.00 | |
| | | c) | Overheads @ 12% | | | | |
| | | d) | Contractor's profit @ 10% on (a+b+c) | | | | |
| | | | Cost for 9 pipes = a+b+c+d | | | | |
| | | | Rate per pipe = (a+b+c+d)/9 | | | | |
| | | | Total Cost | per p | | | |
| | | | Total Loding & Unloading of RCC Hume Pipe | per Pipe | = 104.95 + 72.15 = | | |
| | | | Total Loding & Unloading of RCC Hume Pipe | m | = 177.1 / 2.50 = | | |

Analysis of Rates (FORMAT F8)

| Sl. No. | SDB Sl. No. | MORD Ref No. | DESCRIPTION | Unit | Quantity | Rate | Amount in Rs |
|---------|---------------|--------------|---|------|----------|-------------------|--------------|
| 25 | | C. | 600/450 mm dia Hume pipe
Unit = per pipe
Taking output = 21 pipes | | | | |
| | | a) | Labour | | | | |
| | | | Mate | day | 0.02 | 321.00 | 6.42 |
| | | | Mazdoor (Unskilled) | day | 0.50 | 304.00 | 152.00 |
| | | b) | Machinery | | | | |
| | | | Truck | hour | 0.20 | 934.30 | 186.86 |
| | | | Crane | hour | 0.20 | 909.00 | 181.80 |
| | | c) | Overheads @ 12% | | | | 63.25 |
| | | d) | Contractor's profit @ 10% on (a+b+c) | | | | 59.03 |
| | | | Cost for 21 pipes = a+b+c+d | | | | 649.36 |
| | | | Rate per pipe = (a+b+c+d)/21 | | | | 30.92 |
| | | | Total Cost per p | | | | 30.92 |
| | | | Total Loding & Unloading of RCC Hume Pipe per Pipe | | | = 44.98 + 30.92 = | 75.90 |
| | | | Total Loding & Unloading of RCC Hume Pipe | m | | = 75.9 / 2.50 = | 30.36 |
| 26 | 1.16 | 100 | Setting Out Pillars
Unit = 1 No.
Analysis of rates per pillar shall account for following :
Typical Benchmark 1 no. as per Dwg no. 200.1 of MORD Data Book (Page 1-18)
The rate analysis for a typical benchmark as per dwg. | | | | |
| | | | 1. Excavation | cum | 0.33 | 334.58 | 108.74 |
| | | | 2. P.C.C. grade M 10 | cum | 0.10 | 5942.23 | 594.22 |
| | | | 3. Brick Masonry in CM 1:4 | cum | 0.48 | 5938.84 | 2820.95 |
| | | | 4. Plastering with CM 1:4 , 15 mm thick cement plaster on Brick work. | sqm | 2.63 | 186.79 | 491.26 |
| | | | Add 5 per cent cost of Items No.1 to 4 for white washing. | | | | 200.76 |
| | | | Sub Total | NO | | | 4215.93 |
| | | A | Total 6 Nos. of Pillars required for 1 Km. | NO | 6.00 | 4215.93 | 25295.58 |
| 27 | 1.16 | 100 | Setting Out Pillars
Unit = 1 No.
Analysis of rates per pillar shall account for following :
Reference Pillar 1 no. as per Dwg no. 200.2 of MORD Data Book (Page 1-18)
The rate analysis for a typical benchmark as per dwg. | | | | |
| | | | 1. Excavation | cum | 0.192 | 334.58 | 64.24 |
| | | | 2. P.C.C. grade M 10 | cum | 0.060 | 5942.23 | 356.53 |
| | | | 3. Brick Masonry in CM 1:4 | cum | 0.193 | 5938.84 | 1146.20 |
| | | | 4. Plastering with CM 1:4 , 15 mm thick cement plaster on Brick work. | sqm | 1.50 | 186.79 | 280.19 |
| | | | Add 5 per cent cost of Items No.1 to 4 for white washing. | | | | 92.36 |
| | | | Sub Total | NO | | | 1939.51 |
| | | B | Total 2 Nos. of reference pillars required for 1 Km. | NO | 2.00 | 1939.51 | 3879.02 |
| | | | Cost of Setting out | Km | A + B | | 29174.60 |
| | | | Total Cost | Km | | | 29174.60 |
| 26 | OLD SOR | | Providing brick bats including spreading laying hand packing and compacting with C.I. Hammer in layers not exceeding 75 mm thick including cost of light barriers, danger signals, chowkidar, taxes, royalty etc. all complete job as per specification and direction of E/I including carriage cost of bricks. | | | | |
| | 8.1.3.2 (iii) | | Unit = cum
Assuming- 2.832 Cum | | | | |
| | | a) | Labour (Unskilled) | | | | |
| | | | i) Carrying, spreading, laying & Packing | nos | 1.50 | 304.00 | 456.00 |
| | | | ii) Compaction brick bats with C.I. Hammer. | nos | 0.67 | 304.00 | 203.68 |
| | | | iii) Brick Bat | Cum | 2.83 | 1063.00 | 3010.42 |
| | | | iv) Local Sand | Cum | 0.63 | 141.85 | 89.65 |
| | | | Over Heads @ 12 % on (a+b+c) | | | | 451.17 |
| | | | C. Profit @ 10 % on (a+b+c+d) | | | | 421.09 |
| | | d) | Cost for 2.832 cum = a+b+c+d | | | | 4632.01 |
| | | e) | Rate Per cum = (a+b+c+d) / 2.832 | cum | | | 1635.60 |
| | | | CARRIAGE | | | | |
| | | | Carriage for Brick (1 cum Bats = 300 nos Bricks) | nos | 0.300 | 776.64 | 233.10 |
| | | | Rate per cum with carriage | | | | 1868.70 |
| | | | Total Cost | CUM | | | 1,868.70 |

Analysis of Rates (FORMAT F8)

| Sl. No. | SDB Sl. No. | MORD Ref No. | DESCRIPTION | Unit | Quantity | Rate | Amount |
|---------|-------------|--------------|---|-------|----------|--------|--------|
| 27 | 5.7.6 | | Labour for cutting 62 mm to 75 mm dia bamboo piles to size and making shoes and driving etc complete job as per specification and direction of E/I. | | | | |
| | | | Unit = Per M
Taking Out put = 10 Joint
(Assuming 10 Joints) | | | | |
| | | a) | Materials | | | | |
| | | | Nut And Bolts 16 mm Dia 225mm Long With Washer etc. | nos | 20.00 | 32.88 | 657.60 |
| | | b) | Laber | nos | 0.50 | 408.00 | 204.00 |
| | | | Carpenter Gril | nos | 0.25 | 304.00 | 76.00 |
| | | | Unskilled Mazdoor | | | | 112.51 |
| | | c) | Overheads @ 12% | | | | 105.01 |
| | | d) | Contractor's profit @ 10% on (a+b+c+d) | | | | 115.51 |
| | | e) | Rate Per cum = (a+b+c+d)/10 | Per M | | | |
| | | | Total Cost | Per M | | | 115.51 |
| 28 | 5.7.7 | | Labour for cutting 62 mm to 75 mm dia bamboo piles to size and making shoes and driving etc complete job as per specification and direction of E/I. | | | | |
| | | | Unit = Per M
Taking Out put = 30.50 M
(Assuming 20 nos, Pile Sunk 1.525 Mtr Deep) | | | | |
| | | b) | Laber | | | | |
| | | | Carpenter Gril | nos | 0.25 | 408.00 | 102.00 |
| | | | Unskilled Mazdoor | nos | 2.50 | 304.00 | 760.00 |
| | | c) | Overheads @ 12% | | | | 103.44 |
| | | d) | Contractor's profit @ 10% on (a+b+c+d) | | | | 96.54 |
| | | e) | Rate Per cum = (a+b+c+d)/30.5 | Per M | | | 34.82 |
| | | | Total Cost | Per M | | | 34.82 |
| 29 | 5.7.8 | | Labour for fitting and fixing split bamboo woven chachari Inn position with 20 swg G.I. wire or 75 mm to 100 mm long nails alternatively including cost of G.I. wire or nails complete job as per specification and direction of E/I. | | | | |
| | | | Unit = Per M
Taking Out put = 9.30 M
(Assuming 20 nos, Pile Sunk 1.525 Mtr Deep) | | | | |
| | | a) | Materials | | | | |
| | | | 75 mm To 100 mm Lon Nails | Kg | 0.25 | 61.74 | 15.44 |
| | | b) | Laber | | | | |
| | | | Carpenter Gril | nos | 1.00 | 408.00 | 408.00 |
| | | | Unskilled Mazdoor | nos | 1.00 | 304.00 | 304.00 |
| | | c) | Overheads @ 12% | | | | 87.29 |
| | | d) | Contractor's profit @ 10% on (a+b+c+d) | | | | 81.47 |
| | | e) | Rate Per cum = (a+b+c+d)/9.30 | Per M | | | 96.37 |
| | | | Total Cost | Per M | | | 96.37 |
| 30 | 5.7.9 | | Labour for fitting and fixing 62 mm to 75 mm dia bamboo runners in position at every vertiacal pile with 150 mm long nails or 38 swg G.I wire including cost of G.I wire or nails complete job as per specification and direction of E/I. | | | | |
| | | | Unit = Per M
Taking Out put = 30.50 M | | | | |
| | | a) | Materials | | | | |
| | | | 75mm To 100 mm Lon Nails | Kg | 0.25 | 61.74 | 15.44 |
| | | b) | Laber | | | | |
| | | | Carpenter Gril | nos | 0.125 | 408.00 | 51.00 |
| | | | Unskilled Mazdoor | nos | 0.250 | 304.00 | 76.00 |
| | | c) | Overheads @ 12% | | | | 17.00 |
| | | d) | Contractor's profit @ 10% on (a+b+c+d) | | | | 15.96 |
| | | e) | Rate Per cum = (a+b+c+d)/30.5 | Per M | | | 5.78 |
| | | | Total Cost | Per M | | | 5.78 |