

# JAI NARAIN VYAS UNIVERSITY JODHPUR



**2016 - 2021**

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

1. Solar energy
2. Biogas plant
3. Wheeling to the Grid
4. Sensor-based energy conservation
5. Use of LED bulbs / power efficient equipment



**JAI NARAIN VYAS UNIVERSITY, JODHPUR**  
**BUILDING CELL**

Dated 12/4/22

No. JNVU/BC/A-4/02

To,

M/s Samrat Refrigeration  
Plot No. 370 New BJS Colony,  
Paota B Road, Jodhpur.

WORK ORDER NO. 02/2022-23

Subject:- P/F Energy Efficient Lights in various Buildings and various campuses of  
JNVU, Jodhpur.

Ref:- E-Tender No.04/2021-22 S. No. 02

Dear Sir,

Your tender for the above work at @ 27%(In words twenty seven percent) premium below the 'G'. Schedule rate item rate quoted by you has been approved of the E-Tender committee held on 05.04.2022 and the above cited work of Rs 364697/- (G. Sch. Amount Rs 499585/- (-) Premium Rs 134888/-) is hereby allotted to you. You should therefore start the work immediately under the instructions and supervision of the Assistant Engineer, Building Cell J.N.V. University, Jodhpur and complete the work within the schedule period of 01 Month to be counted from 13.04.2022. The work shall be carried out in accordance with the Rajasthan Public Work Department detailed specification and to the entire satisfaction of the concerned and the undersigned .

1. During the execution of the work if your allotted some items of work, Which are not Included in Schedule G but for which Rajasthan P.W.D Schedule rates exist, you will carry out such items of work at the above premium above/below the rates mentioned in the Rajasthan P.W.D Schedule of rates in the year on the basis of which G-Schedule is prepared.
2. You will have to procure all stores yourself unless there is mention to the contrary in the agreement.
3. Water for construction work if required from the Building Cell shall be supplied @1% of the total cost of work allotted to you.
4. The University reserves the right to delete or alter the quantities mentioned against any item in G. Schedule for which no will be entertained.
5. The transactions involved in the execution of the work in this tender will be liable to sales tax vide section 2(c) read with Clause (i) of the Explanation (2) (i) and Rule 8 of the Rajasthan sale tax Act, 1954 or as amended from time to time.
6. The name (s) of your authorized representative (s) to receive the instructions at cite be intimated before the work is started.



7. Please send your authorized representative to the office of the undersigned to sign the agreement, within seven days of the date of issue of this work order.
8. A copy of 'G' schedule is enclosed, but in case of any discrepancy between this and the G. Schedule signed and submitted by you along with tender documents the letter shall be considered as authentic.
9. The drawings for the work are enclosed.
10. Work order number should always be quoted in all correspondence.
11. You should submit within 7 days of this letter a time Schedule for completion of major items of work for approval of the same by the under signed. You shall have to abide by this approval time Schedule for execution of the work allotted to you.
12. This letter made please be acknowledged.

Thanking You

Yours faithfully

Enclose :-

1. 'G' Schedule (Page )
2. Set of Drawings ( )

No. JNVU/BC/A-4/ 02

Dated 12/4/22

Copy forward to the following for information and necessary action:

The expenditure will be debited to RRM Works.

Sanction No.

Dated

for Rs/-

1. The Comptroller (F.A) J.N.V. University. Jodhpur with a copy of 'G' Schedule and agreement
2. The Assistant Registrar, (Development) J.N.V. University, Jodhpur.
3. The Assistant Engineer A/B/E with the following enclosures.
  - a. One Spare copy of the Work order for use of Jr. Engineer.
  - b. Two Sets of Drawings ( ) Nos in each set) out of which one set is to be supplied to the Jr. Engineer.
  - c. Two Copies of the 'G' schedule out of which one copy is for the Jr. Engineer.
4. Labour Inspector, Labour Court, Jodhpur.
5. A.En. (C) Building Cell.
6. A-3/A-5, E.M of Rs. \_\_\_\_\_ Deposited vide C.R No. \_\_\_\_\_ Dated copy of 'G' schedule, agreement enclosed.
7. Work Order file,
8. Master file.

**UNIVERSITY ENGINEER**  
**UNIVERSITY ENGINEER**  
**BUILDING CELL**  
**Jai Narain Vyas University**  
**JODHPUR (Raj.)**

**UNIVERSITY ENGINEER**



**JAI NARAIN VYAS UNIVERSITY**  
**BUILDING CELL**  
**"G Schedule"**

**Name of work :-P/F Energy Efficient Lights in various Buildings and various Campuses of JNVU, Jodhpur**

| S.N | Ch. No. | Particulars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Unit | Qty. | Rate | Amount |
|-----|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|--------|
| 1   | E181305 | Providing & Fixing of IK07 IP 66 protected LED Street Light Luminaire on existing bracket/pole. Fixture made of powder coated single piece pressure die cast aluminum LM6/ADC12 material with heat dissipation fins on housing with UV stabilized PC/Toughened Glass cover (UV stablization report submitted for UV cover ) and secondary lens on each LED & should be SMD type . The System level Luminaire efficacy $\geq 120$ lm/ wt with High Power LEDs is to be used and potted driver must be potted & has a unique BIS R number with Input Voltage AC 120 to 270 V AC with High voltage Cutoff @ $\geq 300$ V AC and Auto resetting Safety ,Input Frequency $50\text{Hz} \pm 3\%$ Power Factor $> 0.95$ driver Efficiency $> 85\%$ ,THD(I) $< 10\%$ Humidity 10% to 90% RH Working Temp -5C to 45C . driver current $< 1000\text{mA}$ shown in LM79 report. The luminaire shall be BIS certified and T.C. certified. Life Expectancy Equal or more than 50000 burning hrs with Minimam 70% lumen maintained ,color Rendering Index $> 70$ and CCT 5700K +355K. Surge protection shall be $\min \geq 4$ KV internal and min 10 KV external. driver should be Phase to phase protection of 440 V for 4 Hrs. Manufactures Word Mark/Name Engraved/Embossing on die cast housing to allow traceability/authenticity. Fixture shall be AS PER IS 10322 Complianced. OEM Must have its own in house NABL lab setup for all testing facilities for LED fixtures. (LM79/LM80) Certificate/ report with liable warranty of product/accessories from OEM shall be submitted. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR . LED Street Light fixture 70 Watt | Each | 40   | 5104 | 204160 |

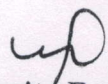
  
**UNIVERSITY ENGINEER**  
**BUILDING CELL**  
**Jai Narain Vyas University**  
**JODHPUR (Raj.)**



|   |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |     |     |               |
|---|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|-----|---------------|
| 2 | E170200 /<br>E170202 | E170200 Providing & fixing of IP20 SMD Mid Power LED batten type integrated light fixture made from polycarbonate / extruded aluminum powder coated housing with in built driver, Power Consumption of 18W/20W, system lumen efficacy > 120 lm/Watt output, internal surge protection of 2.5 KV with short and open Circuit Protection, THD < 10% ,p.f.> 0.95, CRI >80 , life time of minimum 50000 Burning hours with, 70% of initial Lumen maintained till life ends, CCT 3000"K / 4000"K / 5700"K / 6000"K / 6500"K (As per ANSI Bin), maximum power consumption should not more than the specified rating and fixture shall be of BIS standard and trade mark certificate (T.C) Manufactured Word / Mark / Name Engrave / Embossing / Screen printing on housing.OEM Must have its own in house NABL lab setup for all testing facilities for LED fixtures . (LM79/LM80 certificate/ Report from OEM shall be submitted All as per pre approved by engineer in charge for additional technical parameters of product/work refer Annexure"A" attacheded with this BSR.4 ft LED tube shape fixture 18/20W (Extruded Al Base) | Each | 975 | 303 | 295425        |
|   |                      | <b>TOTAL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |     |     | <b>499585</b> |

**Terms and Condition:--**

1. For the items of the G.Schedule which have reference to Raj. P.W.D. (BSR) 22 April, 2019 (civil)/ 01-04-2021 (Electric) the relevant rates as mentioned in P.W.D (BSR) 22 April, 2019(civil)/ 01-04-2021 (Electric) shall considered to be correct and applicable in case of any discrepancy in the rates mentioned above for such items and that shown in P.W.D. (BSR) 22 April, 2019 (civil)/ 01-04-2021 (Electric) applicable for Jodhpur City.
2. N.S. under reference in the column of the Schedule means non schedule items of the work for which the P.W.D. (BSR) 22 April, 2019 (civil)/ 01-04-2021 (Electric) shall not applicable.
3. Additions/ Reduction/ Alteration/ Cancellation in the quantities of the item given in the Schedule will be at the discretion of the University. No compensation shall be paid for the item so cancelled.
4. "Here enamel paint is specified only synthetic enamel paint of approved make shall be used.
5. 1% Labourcess shall be deducted from the contractor bill.
6. Royalty will be deducted from the contractor bill as per rule & contractor will obtained the short term license from the mining department.

  
**University Engineer**  
**BUILDING CELL**  
**Jai Narain Vyas University**  
**JODHPUR (Raj.)**



# Ist Running Account Bill

( FOR CONTRACTOR AND SUPPLIERS FOR PAYMENTS FOR WORK OR SUPPLIES ACTUALLY MEASURED )

Cash book Voucher No. 14 :

Date : 28/5/22

Name of Contractor : M/s. Samrat Refrigeration

Name of Work : P/F Energy Efficient Lights in Various Campuses of JNVU, Jodhpur.

S.No. of this Bill : Running Ist & Final Account Bill

Ref. of Work Order or Agr. : JNVU/BC/A-4/ 02 Dated 12.04.2022

St. Date of Commencement : 13.04.2022

Date of St. Completion : 12.05.2022

Actual Date of Completion : 12.05.2022

Chargeable Head : R.R.M. Works 2021-22

## I - ACCOUNT OF WORK OR SUPPLIES MADE

| S. No. | Unit | Quantity executed since last Bill | Quantity executed upto date as per measureme | Items of work or soppliers/grouped under 'sub-head' and 'sub-works' of estimate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Rate (Rs.) | Amount (Rs.) |                      | Remarks |
|--------|------|-----------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|----------------------|---------|
|        |      |                                   |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | Up to Date   | Since Previous Bills |         |
| 1      | 2    | 3                                 | 4                                            | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6          | 7            | 8                    | 9       |
| 1      | Each | 40                                | 40                                           | Providing & Fixing of IK07 IP 66 protected LED Street Light Luminaire on existing bracket/pole. Fixture made of powder coated single piece pressure die cast aluminum LM6/ ADC12 material with heat dissipation fins on housing with UV stabilized PC/Toughened Glass cover (UV stablization report submitted for UV cover ) and secondary lens on each LED & should be SMD type . The System level Luminaire efficacy >=120 lm/ wt with High Power LEDs is to be used and potted driver must be potted & has a unique BIS R number with Input Voltage AC 120 to 270 V AC with High voltage Cutoff @>=300 V AC and Auto resetting Safety .Input Frequency 50Hz=3% Power Factor >0.95 driver Efficiency >85% .THD(i) <10% Humidity 10% to 90% RH Working Temp -5C to 45C . driver current <1000mA shown in LM79 report. The luminaire shall be BIS certified and T.C. certified. Life Expectancy Equal or more than 50000 burning hrs with Minimum 70% lumen maintained ,color Rendering Index >70 and CCT 5700K +355K. Surge protection shall be min ≥ 4 KV internal and min 10 KV external. driver should be Phase to phase protection of 440 V for 4 Hrs. Manufactures Word Mark/Name Engraved/Embossing on die cast housing to allow traceability/authenticity. Fixture shall be AS PER IS 10322 Complienced. OEM Must have its own in house NABL lab setup for all testing facilities for LED fixtures. (LM79/LM80) Certificate/ report with liable warranty of product/accessories from OEM shall be submitted. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR . LED Street Light fixture 70 Watt | 5000       | 200000.00    | 200000.00            |         |



| S. No.  | Unit | Quantity executed since last Bill | Quantity executed upto date as per measureme | Items of work or suppliers/grouped under 'sub-head' and 'sub-works' of estimate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Rate (Rs.) | Amount (Rs.) |                      | Remarks |
|---------|------|-----------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|----------------------|---------|
|         |      |                                   |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            | Up to Date   | Since Previous Bills |         |
| 1       | 2    | 3                                 | 4                                            | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6          | 7            | 8                    | 9       |
| 2       | Each | 975                               | 975                                          | Providing & Fixing of IP20 SMD Mid Power LED batten type integrated light fixture made from polycarbonate /extruded aluminium powder coated housing with in built driver . Power Consumption of 18W/20W .system lumen efficacy $\geq 120$ lm/Watt output. internal surge protection of 2.5 KV with Short & Open circuit protection .THD < 10% .p.f $\geq 0.95$ .CRI >80 . life time of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends . CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin) . maximum power consumption should not more than the specified rating and Fixture shall be of BIS standard and trade mark certificate ( T.C ) . Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. OEM must have its own in house NABL lab setup for all testing facilities for LED fixtures. (LM79/LM80) certificate / Report from OEM shall be submitted. All as per pre approved by engineer in charge . for additional technical parameters of product/ work. refer Annexure "A" attacheded wiKV internal and min 10 KV external. driver should be Phase to phas | 200        | 195000.00    | 195000.00            |         |
| Total:- |      |                                   |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            | 395000.00    | 395000.00            |         |



| Quantity<br>executed<br>since<br>last Bill | Quantity<br>executed<br>upto date<br>as per<br>measure | Items of work or suppliers/grouped under 'sub-head' and 'sub-works' of estimate | Rate (Rs.) | Amount (Rs.) |                      | Remark |
|--------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------|------------|--------------|----------------------|--------|
|                                            |                                                        |                                                                                 |            | Up to Date   | Since Previous Bills |        |
| 3                                          | 4                                                      | 5                                                                               | 6          | 7            | 8                    | 9      |
|                                            |                                                        |                                                                                 |            | 395000.00    | 395000.00            |        |
|                                            |                                                        |                                                                                 |            | 106650.00    | 106650.00            |        |
|                                            |                                                        | Less:- T.P. 27% below                                                           |            | 288350.00    | 288350.00            |        |
|                                            |                                                        | <b>Total</b> value of work done or supplies made                                |            |              |                      |        |
|                                            |                                                        | Deduct value of work or supplies shown on previous bill                         |            |              |                      |        |
|                                            |                                                        | Net Value of work or supplies since previous bill figures in work (a)           |            | 288350       | 288350               |        |

## II - Certificate and Signature

The measurement made by : Shri Nahar Singh Assistant Engineer,  
recorded in M.B. No. 217/ Page no. 38 to 40

Signature of Contractor

ASSISTANT ENGINEER  
BUILDING CELL  
JAINARAIN VYAS UNIVERSITY  
JODHPUR

|                                                                          |                  |             |
|--------------------------------------------------------------------------|------------------|-------------|
| for Rs 208350/- Two Lacs Eighty Eight Thousand Three hundred Fifty only. |                  |             |
| 8443 Deposit II (S.D.)                                                   | 10%              | 20835.00    |
| Water Charges                                                            | 1%               | —           |
| 8658 Income Tax                                                          | 1.04% 2/-        | 5767.10     |
| GS                                                                       | 1%               | 2084.00     |
| SGST                                                                     | 1%               | 2084.00     |
| Labour Cess                                                              | 1%               | 2084.00     |
| 0853 Mining (Royalty)                                                    | 1.50%            | —           |
| DFMT                                                                     | (10% of Royalty) | —           |
| Total Deductions:-                                                       |                  | 43254.10    |
| By Cheque                                                                |                  | 245096      |
| G. Total                                                                 |                  | 208350/-    |
| Chargeable Head                                                          |                  | RRM 2021-22 |

Section Officer  
SECTION OFFICER  
Building Cell  
Jai Narain Vyas University  
Jodhpur

Assistant Engineer  
BUILDING CELL  
Jai Narain Vyas University  
JODHPUR (Raj.)



# Ind Running & Final Bill Account Bill

(FOR CONTRACTOR AND SUPPLIERS FOR PAYMENTS FOR WORK OR SUPPLIES ACTUALLY MEASURED)

Date : 11/8/2022

Cash book Voucher No 20

Name of Contractor : M/s. Samrat Refrigeration

Name of Work : P/F Energy Efficient Lights in Various Campuses of JNVU, Jodhpur.

S.No. of this Bill Ind & Final Account Bill

Ref. of Work Order or Agt JNVU/BC/A-4/ 02 Dated 12.04.2022

St. Date of Commencement 13.04.2022

Date of St. Completion 12.05.2022

Actual Date of Completion 12.05.2022

Chargeable Head R.R.M. Works 2021-22

## I - ACCOUNT OF WORK OR SUPPLIES MADE

| S. No. | Unit | Quantity executed since last Bill | Quantity executed upto date | Items of work or suppliers/grouped under 'sub-head' and 'sub-works' of estimate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Rate (Rs.) | Amount (Rs.) |                      | Remarks |
|--------|------|-----------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|----------------------|---------|
|        |      |                                   |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            | Up to Date   | Since Previous Bills |         |
| 1      | 2    | 3                                 | 4                           | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6          | 7            | 8                    | 9       |
| 1      | Each | 20                                | 60                          | Providing & Fixing of IK07 IP 66 protected LED Street Light Luminaire on existing bracket/pole. Fixture made of powder coated single piece pressure die cast aluminum LM6/ADC12 material with heat dissipation fins on housing with UV stabilized PC/Toughened Glass cover (UV stablization report submitted for UV cover ) and secondary lens on each LED & should be SMD type . The System level Luminaire efficacy >=120 lm/ wt with High Power LEDs is to be used and potted driver must be potted & has a unique BIS R number with Input Voltage AC 120 to 270 V AC with High voltage Cutoff @>=300 V AC and Auto resetting Safety Input Frequency 50Hz±3% Power Factor >0.95 driver Efficiency >85% THD(I) <10% Humidity 10% to 90% RH Working Temp -5C to 45C . driver current <1000mA shown in LM79 report. The luminaire shall be BIS certified and T.C. certified. Life Expectancy Equal or more than 50000 burning hrs with Minimum 70% lumen maintained ,color Rendering Index >70 and CCT 5700K +355K. Surge protection shall be min ≥ 4 KV internal and min 10 KV external. driver should be Phase to phase protection of 440 V for 4 Hrs. Manufactures Word Mark/Name Engraved/Embossing on die cast housing to allow traceability/authenticity. Fixture shall be AS PER IS 10322 Complied. OEM Must have its own in house NABL lab setup for all testing facilities for LED fixtures. (LM79/LM80) Certificate/ report with liable warranty of product/accessories from OEM shall be submitted. All as per pre approved by Engineer in charge. For additional technical parameters of products/ work , refer Annexure "A" attached with this BSR . LED Street Light fixture 70 Watt | 5104       | 306240.00    | 106240.00            |         |



| S. No. | Unit | Quantity executed since last Bill | Quantity executed upto date | Items of work or suppliers/grouped under 'sub-head' and 'sub-works' of estimate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Rate (Rs.) | Amount (Rs.) |                      | Rate |
|--------|------|-----------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|----------------------|------|
|        |      |                                   |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            | Up to Date   | Since Previous Bills |      |
| 1      | 2    | 3                                 | 4                           | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6          | 7            | 8                    | 9    |
| 2      | Each | 75                                | 1050                        | Providing & fixing of IP20 SMD Mid Power LED batten type integrated light fixture made from polycarbonate / extruded aluminum powder coated housing with in built driver, Power Consumption of 18W/20W, system lumen efficacy > 120 lm/Watt output, internal surge protection of 2.5 KV with short and open Circuit Protection, THD < 10% ,p.f.> 0.95, CRI >80 , life time of minimum 50000 Burning hours with, 70% of initial Lumen maintained till life ends, CCT 3000°k / 4000°k / 5700°k / 6000°k / 6500°k (As per ANSI Bin), maximum power consumption should not more than the specified rating and fixture shall be of BIS standard and trade mark certificate (T.C) Manufactured Word / Mark / Name Engrave / Embossing / Screen printing on housing.OEM Must have its own in house NABL lab setup for all testing facilities for LED fixtures . (LM79/LM80 certificate/ Report from OEM shall be submitted All as per pre approved by engineer in charge for additional technical parameters of product/work refer Annexure "A" attacheded with this BSR.4 ft LED tube shape fixture 18/20W (Extruded Al Base) | 228        | 239400.00    | 44400.00             |      |
|        |      |                                   |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            | 545640.00    | 150640.00            |      |



| Quantity executed since last Bill | Quantity executed & updated as per measurement | Items of work or suppliers/grouped under 'sub-head' and 'sub-works' of estimate | Rate (Rs.) | Amount (Rs.) |                      | Remark |
|-----------------------------------|------------------------------------------------|---------------------------------------------------------------------------------|------------|--------------|----------------------|--------|
|                                   |                                                |                                                                                 |            | Up to Date   | Since Previous Bills |        |
| 3                                 | 4                                              | 5                                                                               | 6          | 7            | 8                    | 9      |
|                                   |                                                |                                                                                 |            | 545640.00    | 150640.00            |        |
|                                   |                                                | Less - T.P. 27% below                                                           |            | 147322.80    | 40672.80             |        |
|                                   |                                                | <b>Total</b> value of work done or supplies made                                |            | 398317.20    | 109967.20            |        |
|                                   |                                                | Deduct value of work or supplies shown on previous bill                         |            | 288350.00    |                      |        |
|                                   |                                                | Net Value of work or supplies since previous bill figures in work (a)           |            | 109967       | 109967               |        |

## II - Certificate and Signature

The measurement made by : Shri Nahar Singh Assistant Engineer,  
recorded in M.B. No 217 Page no. 38 to 43

Signature of Contractor

Assistant Engineer  
JAI NARAIN VYAS UNIVERSITY  
JODHPUR

ed for Rs 109967 /- One Lakh Nine Thousand Nine hundred Sixty seven only.

|                        |                  |             |
|------------------------|------------------|-------------|
| 8443 Deposit II (S.D.) | 10%              | 10997/-     |
| Water Charges          | 1%               | —           |
| 8653 Income Tax        | 1.04% 2y.        | 2193/-      |
| CST                    | 1%               | 1100/-      |
| SGST                   | 1%               | 1100/-      |
| Labour Cess            | 1%               | 1100/-      |
| 8853 Mining (Royalty)  | 1.50%            | —           |
| DFMT                   | (10% of Royalty) | —           |
| Total Deductions:-     |                  | 16486/-     |
| By Cheque              |                  | 93481/-     |
| G. Total               |                  | 109967/-    |
| Chargeable Head        |                  | RRM 2021-22 |

Section Officer  
Building  
Jai Narain Vyas University  
Jodhpur

University Engineer  
BUILDING CHARGE  
Jai Narain Vyas University  
JODHPUR (Rd.)



# 1st & Final Account Bill

(FOR CONTRACTOR AND SUPPLIERS FOR PAYMENTS FOR WORK OR SUPPLIES ACTUALLY MEASURED)

Cash book Voucher No.

Name of Contractor

: M/s. Meghna Construction

Date

Name of Work

: Sanitary work in P.G.Girls Hostel. JNVU, Jodhpur.

S.No. of this Bill

1st & Final Account Bill

Ref. of Work Order or Agr. :

JNVU/BC/A-4/29 Dated 8.10.2021

St. Date of Commencement

8.10.2021

Date of St. Completion

17.10.2021

Actual Date of Completion

16.10.2021

Chargeable Head

R.R.M 2021-22

## I - ACCOUNT OF WORK OR SUPPLIES MADE

| S. No. | Unit | Quantity executed since last Bill | Quantity executed upto date as per measureme | Items of work or suppliers/grouped under 'sub-head' and 'sub-works' of estimate                                                                                                                                                                                             | Rate (Rs) | Amount (Rs) |                      | Remarks |
|--------|------|-----------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|----------------------|---------|
|        |      |                                   |                                              |                                                                                                                                                                                                                                                                             |           | Up to Date  | Since Previous Bills |         |
| 1      | 2    | 3                                 | 4                                            | 5                                                                                                                                                                                                                                                                           | 6         | 7           | 8                    | 9       |
| 1      | Mtr  | 21.340                            | 21.340                                       | Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes and including stacking of pipes within 50 meter lead : 15 mm to 40 mm nominal bore.                                                                           | 22        | 469.48      | 469.48               |         |
| 2      | Mtr  | 21.340                            | 21.340                                       | P & F G.I. Pipes (External work) with G.I. fittings (IS:1239 Mark) including trenching & refilling earth etc. 25 mm dia nominal bore                                                                                                                                        | 184       | 3926.56     | 3926.56              |         |
| 3      | Mtr  | 42.650                            | 42.650                                       | P&F CPVC Pipes in SDR 11 (Internal work) with CPVC fittings (IS:15778 Mark) including cutting and making good the walls and floors : (B) Concealed pipe in Wall (in) 25mm dia                                                                                               | 178       | 7591.70     | 7591.70              |         |
| 4      | Each | 3.000                             | 3.000                                        | P & F Full-way valve (IS:778 Mark) or wheel valve of approved make : Gun-metal 25 mm nominal bore                                                                                                                                                                           | 404       | 1212.00     | 1212.00              |         |
| 5      | Each | 5.000                             | 5.000                                        | P & F Low level Flushing Cistern of 10 litres capacity (IS:2556 mark) of approved make with complete fittings C.I. brackets duly painted, brass ball cock with ball. (IS:1703 mark) complete including cutting and making good the wall : PVC with PVC bend as per IS: 7231 | 1272      | 6360.00     | 6360.00              |         |
| 6      | Each | 11.000                            | 11.000                                       | P & F Bib Cock (IS 8931 Mark) Superior quality of approved make : C.P. Brass bib cock, 15 mm nominal bore                                                                                                                                                                   | 470       | 5170.00     | 5170.00              |         |
| 7      | Each | 10.000                            | 10.000                                       | Long body, 15 mm nominal bore weight not less than 690 gm                                                                                                                                                                                                                   | 498       | 4980.00     | 4980.00              |         |
| 8      | Each | 9.000                             | 9.000                                        | P & F Pillar Cocks (IS 8934 Mark) of superior quality and approved make : C.P. Pillar cock 15 mm dia nominal bore                                                                                                                                                           | 633       | 5697.00     | 5697.00              |         |
| 9      | Each | 18.000                            | 18.000                                       | P & F 15 mm Dia Connection pipe of approved quality/make : 600 mm                                                                                                                                                                                                           | 61        | 1098.00     | 1098.00              |         |
| 10     | Each | 1.000                             | 1.000                                        | P&F waste pipe with all fitting PVC with PVC Nut 32mm                                                                                                                                                                                                                       | 61        | 61.00       | 61.00                |         |
| 11     | Each | 17.000                            | 17.000                                       | P & F Inlet Connection (Angle Valves) Superior quality, of approved make, for Wash basin, Gysar etc C.P. Inlet connection 15 mm Brass (IS 8931 marked)                                                                                                                      | 316       | 5372.00     | 5372.00              |         |
| 12     | Each | 10.000                            | 10.000                                       | P&F Grating of approved quality/make Stainless steel sheet size 125mm dia                                                                                                                                                                                                   | 44        | 440.00      | 440.00               |         |
| 13     | Each | 1.000                             | 1.000                                        | P & F water closet Seat Covers with brass hinges complete IS 2548-1996 Solid PVC (ISI marked) grade-I White for FWC                                                                                                                                                         | 393       | 393.00      | 393.00               |         |



| S.<br>No. | Unit | Quantity<br>executed<br>since last<br>Bill | Quantity<br>executed<br>uptodate as<br>per<br>measureme | Items of work or soppliers/grouped under<br>'sub-head' and 'sub-works' of estimate                                           | Rate (Rs.) | Amount (Rs.) |                     |
|-----------|------|--------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------|--------------|---------------------|
|           |      |                                            |                                                         |                                                                                                                              |            | Up to Date   | Since<br>Previous B |
| 1         | 2    | 3                                          | 4                                                       | 5                                                                                                                            | 6          | 7            | 8                   |
| 14        | Each | 4.000                                      | 4.000                                                   | P&F Bath shower of approved quality/ make C.P.<br>brass of Heavy & superior quality, revolving with<br>adjustable key 150mm. | 439        | 1756.00      | 1756.00             |
| Total:-   |      |                                            |                                                         |                                                                                                                              |            | 44526.74     | 44526.7             |



| Quantity executed since last Bill                                                                                                                                          | Quantity executed upto date as per measurement | Items of work or suppliers/grouped under 'sub-head' and 'sub-works' of estimate | Rate (Rs) | Amount (Rs) |                      | Remarks |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------|-----------|-------------|----------------------|---------|
| 3                                                                                                                                                                          | 4                                              | 5                                                                               | 6         | Up to Date  | Since Previous Bills | 9       |
|                                                                                                                                                                            |                                                | Less:- T.P. 9.01% below                                                         |           | 44526.74    | 44526.74             |         |
| <b>CERTIFICATE</b><br>Certified that the work has been executed as per the P.W.D./MORTH Specifications.<br><br>Assistant Engineer<br>P.W.D. Distt. Sub Division<br>Mandore |                                                | <b>Total</b> value of work done or supplies made                                |           | 4011.86     | 4011.86              |         |
|                                                                                                                                                                            |                                                | Deduct value of work or supplies shown on previous bill                         |           | 40514.88    | 40514.88             |         |
|                                                                                                                                                                            |                                                | Net Value of work or supplies since previous bill figures in work (a)           |           | 40515       | 40515                |         |
|                                                                                                                                                                            |                                                |                                                                                 |           |             |                      |         |

## II - Certificate and Signature

The measurement made by : Shri Nahar Singh Assistant Engineer,  
recorded in M.B. No. 2243 Page no. 1 to 4

*Meeta Yadav*  
Signature of Contractor

*BSA*  
Assistant Engineer  
BUILDING CELL  
JAI NARAIN VYAS UNIVERSITY

JAINARAIN VYAS UNIVERSITY

|                                                                  |                  |          |             |
|------------------------------------------------------------------|------------------|----------|-------------|
| Assessed for Rs 40515/- Forty thousand five hundred fifteen only |                  |          | JODHPUR     |
| 8443 Deposit II (S.D.)                                           | 10%              | 4052.00  |             |
| Water Charges                                                    | 1%               | 405.15   |             |
| 8658 Income Tax                                                  | 1.04%            | 421.00   |             |
| GST                                                              | 1%               | 405.15   |             |
| SGST                                                             | 1%               | 405.15   |             |
| Labour Cess                                                      | 1%               | 405.15   |             |
| 0853 Mining (Royalty)                                            | 1.50%            | 607.73   |             |
| DFMT                                                             | (10% of Royalty) | 60.77    |             |
| Total Deductions:-                                               |                  | 6357.10  |             |
| By Cheque                                                        |                  | 34150.00 |             |
| G. Total                                                         |                  | 40515.10 |             |
| Chargeable Head                                                  |                  |          | RRM 2021-22 |

*Section Officer*  
Section Officer

*University Engineer*  
UNIVERSITY ENGINEER  
BUILDING CELL  
Jai Narain Vyas University  
JODHPUR (Raj.)



# Ist & Final Account Bill

(FOR CONTRACTOR AND SUPPLIERS FOR PAYMENTS FOR WORK OR SUPPLIES ACTUALLY MEASURED)

|                              |                                                                                                          |        |
|------------------------------|----------------------------------------------------------------------------------------------------------|--------|
| Cash book Voucher No.        |                                                                                                          | Date : |
| Name of Contractor           | : M/s. Meghna Construction                                                                               |        |
| Name of Work                 | : Sanitary work in Derashree Hostel, Mathematics, Zoology Department & Botany Department, JNVU, Jodhpur. |        |
| S.No. of this Bill           | Ist & Final Account Bill                                                                                 |        |
| Ref. of Work Order or Agr. : | JNVU/BC/A-4/30 Dated 8.10.2021                                                                           |        |
| St. Date of Commencement     | 8.10.2021                                                                                                |        |
| Date of St. Completion       | 17.10.2021                                                                                               |        |
| Actual Date of Completion    | 16.10.2021                                                                                               |        |
| Chargeable Head              | R.R.M 2021-22                                                                                            |        |

## I - ACCOUNT OF WORK OR SUPPLIES MADE

| S. No.  | Unit | Quantity executed since last Bill | Quantity executed upto date as per measureme | Items of work or suppliers/grouped under 'sub-head' and 'sub-works' of estimate                                                                                                                                                                                                 | Rate (Rs.) | Amount (Rs.) |                      | Remarks |
|---------|------|-----------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|----------------------|---------|
|         |      |                                   |                                              |                                                                                                                                                                                                                                                                                 |            | Up to Date   | Since Previous Bills |         |
| 1       | 2    | 3                                 | 4                                            | 5                                                                                                                                                                                                                                                                               | 6          | 7            | 8                    | 9       |
| 1       | Mtr  | 24.300                            | 24.300                                       | Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes and including stacking of pipes within 50 meter length. Above 40 mm nominal bore.                                                                                 | 27         | 656.10       | 656.10               |         |
| 2       | Each | 4.000                             | 4.000                                        | P & F PVC Storage Tank (IS 12701 marked indicating the BIS license No.) of approved make with cover, 25 mm dia 1 M long G.I. over-flow pipe & 25 Cm. long wash out pipe with plug & socket, including making connection etc. complete of approved design, 1000 litres capacity. | 7728       | 30912.00     | 30912.00             |         |
| 3       | Each | 4.000                             | 4.000                                        | P & F Ball Cock (IS 1703 Mark) with Rod & P.V.C. Ball complete. Brass wt. 400 gm, 15 mm.                                                                                                                                                                                        | 294        | 1176.00      | 1176.00              |         |
| 4       | Mtr  | 9.750                             | 9.750                                        | P & F G.I. Pipes (Internal work) with G.I. fittings (IS 1239 Mark) & M.S. clamps including cutting and making good the walls and floors. 25 mm dia nominal bore.                                                                                                                | 288        | 2808.00      | 2808.00              |         |
| 5       | Mtr  | 12.300                            | 12.300                                       | 15 mm dia nominal bore                                                                                                                                                                                                                                                          | 187        | 2300.10      | 2300.10              |         |
| 6       | Mtr  | 24.300                            | 24.300                                       | P & F G.I. Pipes (External work) with G.I. fittings (IS 1239 Mark) including trenching & refilling earth etc. 50mm dia nominal bore.                                                                                                                                            | 323        | 7848.90      | 7848.90              |         |
| 7       | Each | 2.000                             | 2.000                                        | P & F Low level Flushing Cistern of 10 litres capacity (IS 2556 mark) of approved make with complete fittings C.I. brackets duly painted, brass ball cock with ball, (IS 1703 mark) complete including cutting and making good the wall. PVC with PVC bend as per IS 7231.      | 1272       | 2544.00      | 2544.00              |         |
| 8       | Each | 1.000                             | 1.000                                        | P & F Bib Cock (IS 8931 Mark) Superior quality of approved make. Long body, 15 mm nominal bore weight not less than 690 gm.                                                                                                                                                     | 498        | 498.00       | 498.00               |         |
| 9       | Each | 4.000                             | 4.000                                        | Making connection with existing G.I. pipes lines of all sizes.                                                                                                                                                                                                                  | 108        | 432.00       | 432.00               |         |
| Total:- |      |                                   |                                              |                                                                                                                                                                                                                                                                                 |            | 49175.10     | 49175.10             |         |



| Unit | Quantity executed since last Bill | Quantity executed and updated as per measure | Items of work or suppliers/grouped under 'sub-head' and 'sub-works' of estimate | Rate (Rs.) | Amount (Rs.) |                      |
|------|-----------------------------------|----------------------------------------------|---------------------------------------------------------------------------------|------------|--------------|----------------------|
| 2    | 3                                 | 4                                            | 5                                                                               | 6          | Up to Date   | Since Previous Bills |
|      |                                   |                                              |                                                                                 |            | 7            | 8                    |
|      |                                   |                                              | Less:- T.P. 9.01% below                                                         |            | 49175.10     | 49175.10             |
|      |                                   |                                              | <b>Total</b> value of work done or supplies made                                |            | 4430.68      | 4430.68              |
|      |                                   |                                              | Deduct value of work or supplies shown on previous bill                         |            | 44744.42     | 44744.42             |
|      |                                   |                                              | Net Value of work or supplies since previous bill figures in work (a)           |            | 44744        | 44744                |

**CERTIFICATE**  
Certified that the work has been executed as per the P.W.D./MORTH Specifications.

Assistant Engineer  
P.W.D. Distt. Sub Division  
Mandore

## II - Certificate and Signature

The measurement made by : Shri Nahar Singh Assistant Engineer,  
recorded in M.B. No. 2247 Page no. 5 to 9

Dated Signature of Contractor

ASSISTANT ENGINEER  
BUILDING CELL  
JAINARAIN VYAS UNIVERSITY  
JODHPUR

Passed for Rs 44744/- Fourty four thousand seven hundred fourty four only

|                        |                  |          |
|------------------------|------------------|----------|
| 8443 Deposit II (S.D.) | 10%              | 4474.40  |
| Water Charges          | 1%               | 447.40   |
| 8658 Income Tax        | 1.04%            | 465.10   |
| GST                    | 1%               | 447.40   |
| SGST                   | 1%               | 447.40   |
| Labour Cess            | 1%               | 447.40   |
| 0853 Mining (Royalty)  | 1%               | 447.40   |
| DFMT                   | 1.50%            | 671.10   |
|                        | (10% of Royalty) | 67.10    |
| Total Deductions:-     |                  | 7018.10  |
| By Cheque              |                  | 37726.10 |
| G. Total               |                  | 44744.00 |
| Chargeable Head        |                  |          |

RRM 2021-22

Section Officer  
SECTION OFFICER  
Build  
Jai Narain  
Jodhpur

University Engineer  
UNIVERSITY ENGINEER  
BUILDING CELL  
Jai Narain Vyas University  
JODHPUR (Raj.)



# Ist & Final Account Bill

( FOR CONTRACTOR AND SUPPLIERS FOR PAYMENTS FOR WORK OR SUPPLIES ACTUALLY MEASURED )

Cash book Voucher No. **149**

Name of Contractor

: M/s. Meghna Construction

Date: **31/12/21**

Name of Work

: Sanitary work in Diamond Hostel New Campus.

S.No. of this Bill

Ist & Final Account Bill.

Ref. of Work Order or Agr. :

JNVU/BC/A-4/24 Dated 6.12.2021

St. Date of Commencement

6.12.2021

Date of St. Completion

15.12.2021

Actual Date of Completion

14.12.2021

Chargeable Head

RRM Works 2021-22

## I - ACCOUNT OF WORK OR SUPPLIES MADE

| S. No. | Unit | Quantity executed since last Bill | Quantity executed upto date as per measureme | Items of work or soppliers/grouped under 'sub-head' and 'sub-works' of estimate                                                                                                                                                                                              | Rate (Rs.) | Amount (Rs.) |                      | Remarks |
|--------|------|-----------------------------------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|----------------------|---------|
|        |      |                                   |                                              |                                                                                                                                                                                                                                                                              |            | Up to Date   | Since Previous Bills |         |
| 1      | Each | 11.000                            | 11.000                                       | P & F Pillar Cocks (IS:8934 Mark) of superior quality and approved make : C.P. Pillar cock 15 mm dia nominal bore.                                                                                                                                                           | 633        | 6963.00      | 6963.00              |         |
| 2      | Each | 17.000                            | 17.000                                       | P & F 15 mm. Dia Connection pipe of approved quality/make: PVC pipe with C.P. Brass nuts 600 mm.                                                                                                                                                                             | 61         | 1037.00      | 1037.00              |         |
| 3      | Each | 8.000                             | 8.000                                        | P&F Bath shower of approved quality/ make C.P. brass of Heavy & superior quality, revolving with adjustable key 150mm.                                                                                                                                                       | 439        | 3512.00      | 3512.00              |         |
| 4      | Each | 8.000                             | 8.000                                        | P & F Low level Flushing Cistern of 10 litres capacity (IS:2556 mark) of approved make with complete fittings C.I. brackets duly painted, brass ball cock with ball, (IS:1703 mark) complete including cutting and making good the wall : PVC with PVC bend as per IS : 7231 | 1272       | 10176.00     | 10176.00             |         |
| 5      | Each | 12.000                            | 12.000                                       | P & F Bib Cock (IS:8931 Mark) Superior quality of approved make : C.P. Brass Long body, 15 mm nominal bore weight not less than 690 gm.                                                                                                                                      | 498        | 5976.00      | 5976.00              |         |
| 6      | Each | 10.000                            | 10.000                                       | C.P. Brass bib cock, 15 mm nominal bore.                                                                                                                                                                                                                                     | 470        | 4700.00      | 4700.00              |         |
| 7      | Each | 16.000                            | 16.000                                       | P & F Inlet Connection (Angle Valves) Superior quality, of approved make, for Wash basin, Gyser etc. C.P. Inlet connection 15 mm Brass (IS:8931 marked).                                                                                                                     | 316        | 5056.00      | 5056.00              |         |
| 8      | Each | 2.000                             | 2.000                                        | P & F Ball Cock (IS:1703 Mark) with Rod & P.V.C. Ball complete : Brass wt. 400 gm, 15 mm.                                                                                                                                                                                    | 294        | 588.00       | 588.00               |         |
| 9      | Each | 1.000                             | 1.000                                        | P & F Full-way valve (IS:778 Mark) or wheel valve of approved make : Gun-metal 15 mm nominal bore.                                                                                                                                                                           | 322        | 322.00       | 322.00               |         |
| 10     | Each | 4.000                             | 4.000                                        | Gun-metal 25 mm nominal bore.                                                                                                                                                                                                                                                | 404        | 1616.00      | 1616.00              |         |
| 11     | Mtr  | 9.000                             | 9.000                                        | P & F CPVC Pipes in SDR 11 (Internal work) with CPVC fittings (IS:15778 Mark) including cutting and making good the walls and floors : (B) Concealed pipe in wall (n) 25mm dia                                                                                               | 178        | 1602.00      | 1602.00              |         |
| 12     | Each | 18.000                            | 18.000                                       | Providing and fixing C.P. flange for 15mm dia taps                                                                                                                                                                                                                           | 14         | 252.00       | 252.00               |         |
| 13     | Each | 20.000                            | 20.000                                       | P&F extension pipe for bib cocks of approved quality/ make: C P brass of Heavy & superior quality 50x15mm                                                                                                                                                                    | 74         | 1480.00      | 1480.00              |         |
| 14     | Each | 1.000                             | 1.000                                        | P & F PVC Storage Tank (IS 12701 marked indicating the BIS license No ) of approved make with cover, 25 mm dia 1 M long G.I. over-flow pipe & 25 Cm long wash out pipe with plug & socket, including making connection etc. complete of approved design 1000 litres capacity | 7728       | 7728.00      | 7728.00              |         |



| S. No.  | Unit | Quantity executed since last Bill | Quantity executed upto date as per measurement | Items of work or suppliers/grouped under 'sub-head' and 'sub-works' of estimate                                                                                                                                                                           | Rate (Rs.) | Amount (Rs.) |                     |
|---------|------|-----------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|---------------------|
|         |      |                                   |                                                |                                                                                                                                                                                                                                                           |            | Up to Date   | Since Previous Bill |
| 15      | Sqm  | 0.280                             | 0.280                                          | Providing and fixing welded mesh/expanded metal mesh in frame work, flat iron beading 20x3mm including top cross laps inside and out sides welding, iron bolts, screws, clips etc. complete (excluding frame work) of size. Welded mesh 25x25mmx16 gauge. | 611        | 171.08       | 171.08              |
| 16      | Kg   | 16.220                            | 16.220                                         | Providing and fixing steel gate grating and grills made of angles, tees, square bars or other flats black pipe with holdfast and fittings complete as per design and drawing including cutting welding and fabrication with priming coat of red oxide.    | 91         | 1476.02      | 1476.02             |
| 17      | Mtr  | 0.000                             | 0.000                                          | P & F G.I. Pipes (Internal work) with G.I. fittings (IS:1239 Mark) & M.S. clamps including cutting and making good the walls and floors : 25 mm dia nominal bore.                                                                                         | 288        | 0.00         | 0.00                |
| Total:- |      |                                   |                                                |                                                                                                                                                                                                                                                           |            | 52655.10     | 52655.10            |



| Quantity executed since last Bill | Quantity executed upto date as per measurement | Items of work or suppliers/grouped under 'sub-head' and 'sub-works' of estimate | Rate (Rs.) | Amount (Rs.) |                      | Remarks |
|-----------------------------------|------------------------------------------------|---------------------------------------------------------------------------------|------------|--------------|----------------------|---------|
|                                   |                                                |                                                                                 |            | Up to Date   | Since Previous Bills |         |
| 3                                 | 4                                              | 5                                                                               | 6          | 7            | 8                    | 9       |
|                                   |                                                | Less:- T.P. 9.01% below                                                         |            | 52655.10     | 52655.10             |         |
|                                   |                                                | <b>Total</b> value of work done or supplies made                                |            | 4744.22      | 4744.22              |         |
|                                   |                                                | Deduct value of work or supplies shown on previous bill                         |            | 47910.88     | 47910.88             |         |
|                                   |                                                | Net Value of work or supplies since previous bill figures in work (a)           |            | 47911        | 47911                |         |

## II - Certificate and Signature

The measurement made by : Shri Nahar Singh Assistant Engineer,  
recorded in M.B. No 2242 Page no. 20 to 31

*Mehar Singh*  
Signature of Contractor

*Shri Nahar Singh*  
Assistant Engineer  
BUILDING CELL  
JAI NARAIN VYAS UNIVERSITY  
JODHPUR

ed for Rs 47911/- Forty seven thousand Nine hundred Eleven only

|                           |                  |                   |
|---------------------------|------------------|-------------------|
| 8443 Deposit II (S.D.)    | 10%              | 4791.10           |
| Water Charges             | 1%               | 479.11            |
| 8658 Income Tax           | 1.04%            | 498.07            |
| GST                       | 1%               | 479.11            |
| SGST                      | 1%               | 479.11            |
| Labour Cess               | 1%               | 479.11            |
| 0853 Mining (Royalty)     | 1.50%            | —                 |
| DFMT                      | (10% of Royalty) | —                 |
| <b>Total Deductions:-</b> |                  | 4791.10 + 6726.11 |
| By Cheque                 |                  | 41185.00          |
| G. Total                  |                  | 47911.00          |
| Chargeable Head           |                  | RRM 2021-22       |

*Shri Nahar Singh*  
Section Officer CER

SEC

Jai Narain

*Shri Nahar Singh*  
University Engineer  
BUILDING CELL  
Jai Narain Vyas University  
JODHPUR (Raj.)



# Ist & Final Account Bill

( FOR CONTRACTOR AND SUPPLIERS FOR PAYMENTS FOR WORK OR SUPPLIES ACTUALLY MEASURED )

Cash book Voucher No. 150

Date: 31/12/21

Name of Contractor : M/s. Meghna Construction

Name of Work : Sanitary work in Law faculty, K.N.College servant qtr no. 6  
Engg fac. & Science block Engg fac. & Chowkidar Room VC

S.No. of this Bill : Ist & Final Account Bill

Ref. of Work Order or Agr. : JNVU/BC/A-4/26 Dated 15.12.2021

St. Date of Commencement : 15.12.2021

Date of St. Completion : 24.12.2021

Actual Date of Completion : 23.12.2021

Chargeable Head : RRM Works 2021-22

## I - ACCOUNT OF WORK OR SUPPLIES MADE

| S. No. | Unit | Quantity executed since last Bill | Quantity executed upto date as per measureme | Items of work or soppliers/grouped under 'sub-head' and 'sub-works' of estimate                                                                                                                                                          | Rate (Rs.) | Amount (Rs.) |                      | Remarks |
|--------|------|-----------------------------------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|----------------------|---------|
|        |      |                                   |                                              |                                                                                                                                                                                                                                          |            | Up to Date   | Since Previous Bills |         |
| 1      | Mtr  | 24.380                            | 24.380                                       | P & F G.I. Pipes (External work) with G.I. fittings (IS:1239 Mark) including trenching & refilling                                                                                                                                       | 184        | 4485.92      | 4485.92              |         |
| 2      | Each | 1.000                             | 1.000                                        | P & F Full-way valve (IS:778 Mark) or wheel valve of approved make : Gun-metal 50 mm nominal                                                                                                                                             | 1037       | 1037.00      | 1037.00              |         |
| 3      | Each | 3.000                             | 3.000                                        | P&F Grating of approved quality/ make Stainless steel sheet size                                                                                                                                                                         | 44         | 132.00       | 132.00               |         |
| 4      | Each | 2.000                             | 2.000                                        | P & F kitchen & Lab Sink of approved make with C.I. brackets duly painted, 40 mm C.P. waste coupling, C.P. Brass chain with rubber plug, 40 mm G.I. waste pipe up to floor level complete including                                      | 2170       | 4340.00      | 4340.00              |         |
| 5      | Each | 3.000                             | 3.000                                        | P & F Bib Cock (IS:8931 Mark) Superior quality of approved make : C.P. Brass Long body, 15 mm nominal bore weight not less than                                                                                                          | 498        | 1494.00      | 1494.00              |         |
| 6      | Mtr  | 3.000                             | 3.000                                        | P&F rigid PVC Pipe (IS:4985 mark) class II(4 Kg./Cm.) approved quality /make including joining the pipe with solvent cement rubber                                                                                                       | 251        | 753.00       | 753.00               |         |
| 7      | Each | 2.000                             | 2.000                                        | P & F PVC Storage Tank (IS:12701 marked indicating the BIS license No ) of approved make with cover, 25 mm dia 1 M long G.I. over-flow pipe & 25 Cm. long wash out pipe with plug & socket, including making connection etc. complete of | 7728       | 15456.00     | 15456.00             |         |
| 8      | Each | 1.000                             | 1.000                                        | 500 litres capacity.                                                                                                                                                                                                                     | 3828       | 3828.00      | 3828.00              |         |
| 9      | Mtr  | 42.700                            | 42.700                                       | P & F G.I. Pipes (External work) with G.I. fittings (IS:1239 Mark) including trenching & refilling                                                                                                                                       | 145        | 6191.50      | 6191.50              |         |
| 10     | Each | 3.000                             | 3.000                                        | P & F Full-way valve (IS:778 Mark) or wheel valve of approved make : Gun-metal 15 mm nominal                                                                                                                                             | 322        | 966.00       | 966.00               |         |
| 11     | Each | 4.000                             | 4.000                                        | Gun-metal 25 mm nominal bore.                                                                                                                                                                                                            | 404        | 1616.00      | 1616.00              |         |



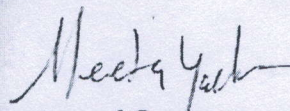
| S. No.  | Unit | Quantity executed since last Bill | Quantity executed upto date as per measureme | Items of work or soppliers/grouped under 'sub-head' and 'sub-works' of estimate                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Rate (Rs.) | Amount (Rs.) |                      |
|---------|------|-----------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|----------------------|
|         |      |                                   |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | Up to Date   | Since Previous Bills |
| 12      | Sqm  | 1.500                             | 1.500                                        | Stone slab roofing on ground for with fine grained stone slab from approved quarry with 150 mm top lime terracing with Hemp, Methi, Lime, Sandla with Gur & Gugal (as per JODHPUR PRACTICE) including ralthal, filling of joints of parapet and slab on both sides in cement sand mortar 1:4 lime batta (gola) 75mmx75mm Sandla and ceiling plaster in CM 1:4 with wire and nails etc. complete as per specification for span. Upto 2.00 metre. Providing and laying lime terrace on roofs of ground floor including lime batta (gola) 75mm | 994        | 1491.00      | 1491.00              |
| 13      | Sqm  | 1.500                             | 1.500                                        | Cement concrete flooring grade 1:2:4 (1-Cement:2-Coarse sand:4-graded stone aggregate) rounding off edges etc. but excluding the cost of nosing of steps etc. complete IS 2571-1970 · 50 mm thick with 20                                                                                                                                                                                                                                                                                                                                   | 281        | 421.50       | 421.50               |
| 14      | Each | 1.000                             | 1.000                                        | Making connection with existing G.I. pipes lines of all sizes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 108        | 108.00       | 108.00               |
| 15      | Mtr  | 55.000                            | 55.000                                       | P & F CPVC Pipes in SDR 11 (Internal work) with CPVC fittings (IS:15778 Mark) including cutting and making good the walls and                                                                                                                                                                                                                                                                                                                                                                                                               | 135        | 7425.00      | 7425.00              |
| 16      | Each | 1.000                             | 1.000                                        | Labour charges for removing WVC WC pan India/ Orissa pan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 110        | 110.00       | 110.00               |
| 17      | Each | 1.000                             | 1.000                                        | P & F Universal (anglo-Indian type) white glazed vitreous china W.C. pan 1st quality with P or S trap including cutting and making good the wall and floor. P & F water closet Seat Covers with brass hinges complete IS 2548-1996 : Solid PVC (ISI marked) grade-I                                                                                                                                                                                                                                                                         | 2941       | 2941.00      | 2941.00              |
| 18      | Each | 1.000                             | 1.000                                        | P & F Low level Flushing Cistern of 10 litres capacity (IS:2556 mark) of approved make with complete fittings C.I. brackets duly painted, brass ball cock with ball, (IS 1703 mark) complete including cutting                                                                                                                                                                                                                                                                                                                              | 1272       | 1272.00      | 1272.00              |
| Total:- |      |                                   |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 54067.92   | 54067.92     |                      |



| Unit | Quantity executed since last Bill | Quantity executed upto date as per measure | Items of work or supplies/grouped under 'sub-head' and 'sub-works' of estimate | Rate (Rs.) | Amount (Rs.) |                      | Remarks |
|------|-----------------------------------|--------------------------------------------|--------------------------------------------------------------------------------|------------|--------------|----------------------|---------|
|      |                                   |                                            |                                                                                |            | Up to Date   | Since Previous Bills |         |
| 2    | 3                                 | 4                                          | 5                                                                              | 6          | 7            | 8                    | 9       |
|      |                                   |                                            |                                                                                |            | 54067.92     | 54067.92             |         |
|      |                                   |                                            | Less:- T.P. 9.01% below                                                        |            | 4871.52      | 4871.52              |         |
|      |                                   |                                            | <b>Total</b> value of work done or supplies made                               |            | 49196.40     | 49196.40             |         |
|      |                                   |                                            | Deduct value of work or supplies shown on previous bill                        |            |              |                      |         |
|      |                                   |                                            | Net Value of work or supplies since previous bill figures in work (a)          |            | 49196        | 49196                |         |

## II - Certificate and Signature

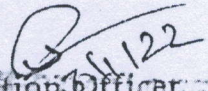
The measurement made by : Shri Nahar Singh Assistant Engineer,  
recorded in M.B. No 2242 Page no. 33 to 37

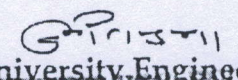
  
Dated Signature of Contractor

  
ASSISTANT ENGINEER  
Assistant Engineer  
Jai Narain Vyas University  
JODHPUR

Passed for Rs 49196 /- Forty nine thousand one hundred ninety six only

|                        |                  |             |
|------------------------|------------------|-------------|
| 8443 Deposit II (S.D.) | 10%              | 4920.00     |
| Water Charges          | 1%               | —           |
| 8658 Income Tax        | 1.04%            | 512.00      |
| GST                    | 1%               | 492.00      |
| SGST                   | 1%               | 492.00      |
| Labour Cess            | 1%               | 492.00      |
| 0853 Mining (Royalty)  | 1.50%            | —           |
| DFMT                   | (10% of Royalty) | —           |
| Total Deductions:-     |                  | 6908.00     |
| By Cheque              |                  | 42288.00    |
| G. Total               |                  | 49196.00    |
| Chargeable Head        |                  | RRM 2021-22 |

  
Section Officer  
Building Cell  
Jai Narain Vyas University  
Jodhpur

  
University Engineer  
BUILDING CELL  
Jai Narain Vyas University  
JODHPUR (Raj.)



# Ist & Final Account Bill

( FOR CONTRACTOR AND SUPPLIERS FOR PAYMENTS FOR WORK OR SUPPLIES ACTUALLY MEASURED )

Cash book Voucher No. **185**

Date: **20/3/22**

Name of Contractor : M/s. Meghna Construction  
 Name of Work : Sanitary work in Chemistry deptt, Gandhian Centre, Qtrs IV FN/New, IIIF/3, I/10, IIIF/21 Board of sports, Law faculty & Commerce fac,  
 S.No. of this Bill : Ist & Final Account Bill  
 Ref. of Work Order or Agr. : JNVU/BC/A-4/49 Dated 06.01.2022  
 St. Date of Commencement : 06.01.2022  
 Date of St. Completion : 20.01.2022  
 Actual Date of Completion : 19.01.2022  
 Chargeable Head : R.R.M 2021-22

## I - ACCOUNT OF WORK OR SUPPLIES MADE

| S. No. | Unit | Quantity executed since last Bill | Quantity executed upto date as per measureme | Items of work or suppliers/grouped under 'sub-head' and 'sub-works' of estimate                                                                                                                                                                                                                                                                                 | Rate (Rs.) | Amount (Rs.) |                      | Remarks |
|--------|------|-----------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|----------------------|---------|
|        |      |                                   |                                              |                                                                                                                                                                                                                                                                                                                                                                 |            | Up to Date   | Since Previous Bills |         |
| 1      | 2    | 3                                 | 4                                            | 5                                                                                                                                                                                                                                                                                                                                                               | 6          | 7            | 8                    | 9       |
| 1      | Mtr  | 30.48                             | 30.480                                       | P & F G.I. Pipes (External work) with G.I. fittings (IS:1239 Mark) including trenching & refilling earth etc. 50mm dia nominal bore.                                                                                                                                                                                                                            | 323        | 9845.04      | 9845.04              |         |
| 2      | Mtr  | 6.09                              | 6.090                                        | P & F G.I. Pipes (Internal work) with G.I. fittings (IS:1239 Mark) & M.S. clamps including cutting and making good the walls and floors : 40 mm dia nominal bore.                                                                                                                                                                                               | 351        | 2137.59      | 2137.59              |         |
| 3      | Mtr  | 22.86                             | 22.860                                       | P & F G.I. Pipes (External work) with G.I. fittings (IS:1239 Mark) including trenching & refilling earth etc. 25 mm dia nominal bore.                                                                                                                                                                                                                           | 184        | 4206.24      | 4206.24              |         |
| 4      | Mtr  | 82.28                             | 82.280                                       | 15 mm dia nominal bore.                                                                                                                                                                                                                                                                                                                                         | 145        | 11930.60     | 11930.60             |         |
| 5      | Mtr  | 6.09                              | 6.090                                        | P & F CPVC Pipes in SDR 11 (Internal work) with CPVC fittings (IS:15778 Mark) including cutting and making good the walls and floors : (B) Concealed pipe in wall (i) 20mm dia                                                                                                                                                                                  | 135        | 822.15       | 822.15               |         |
| 6      | Each | 1                                 | 1.000                                        | P & F Full-way valve (IS:778 Mark) or wheel valve of approved make : Gun-metal 50 mm nominal bore.                                                                                                                                                                                                                                                              | 1037       | 1037.00      | 1037.00              |         |
| 7      | Each | 1                                 | 1.000                                        | Gun-metal 40 mm nominal bore.                                                                                                                                                                                                                                                                                                                                   | 762        | 762.00       | 762.00               |         |
| 8      | Each | 12                                | 12.000                                       | Gun-metal 25 mm nominal bore.                                                                                                                                                                                                                                                                                                                                   | 404        | 4848.00      | 4848.00              |         |
| 9      | Each | 6                                 | 6.000                                        | P & F Ball Cock (IS:1703 Mark) with Rod & P.V.C. Ball complete : Brass wt. 1000 gm, 25 mm.                                                                                                                                                                                                                                                                      | 734        | 4404.00      | 4404.00              |         |
| 10     | Each | 2                                 | 2.000                                        | P & F Ball Cock (IS:1703 Mark) with Rod & P.V.C. Ball complete : Brass wt. 400 gm. 15 mm.                                                                                                                                                                                                                                                                       | 294        | 588.00       | 588.00               |         |
| 11     | Each | 8                                 | 8.000                                        | P & F Bib Cock (IS:8931 Mark) Superior quality of approved make : C.P. Brass Long body, 15 mm nominal bore weight not less than 690 gm.                                                                                                                                                                                                                         | 498        | 3984.00      | 3984.00              |         |
| 12     | Each | 6                                 | 6.000                                        | P & F Bib Cock (IS:8931 Mark) Superior quality of approved make : C.P. Brass bib cock, 15 mm nominal bore.                                                                                                                                                                                                                                                      | 470        | 2820.00      | 2820.00              |         |
| 13     | Each | 5                                 | 5.000                                        | Making connection with existing G.I. pipes lines of all sizes.                                                                                                                                                                                                                                                                                                  | 108        | 540.00       | 540.00               |         |
| 14     | Each | 1                                 | 1.000                                        | P & F European type white glazed vitreous china Ist quality W.C. pan (IS:2556 Mark) with P or S trap including cutting and making good the wall and floor. P & F water closet Seat Covers with brass hinges complete IS 2548-1996 : Solid PVC (ISI marked) grade-I White for EWC. P&F Jet spray for water closet with C.P. copper tube flange of approved make. | 2175       | 2175.00      | 2175.00              |         |



| Unit           | Quantity<br>executed<br>since last<br>Bill | Quantity<br>executed<br>uptodate as<br>per<br>measureme | Items of work or soppliers/grouped under<br>'sub-head' and 'sub-works' of estimate | Rate (Rs.) | Amount (Rs.) |                        |
|----------------|--------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------|------------|--------------|------------------------|
|                |                                            |                                                         |                                                                                    |            | Up to Date   | Since<br>Previous Bill |
| 2              | 3                                          | 4                                                       | 5                                                                                  | 6          | 7            | 8                      |
| <b>Total:-</b> |                                            |                                                         |                                                                                    |            | 50099.62     | 50099.62               |

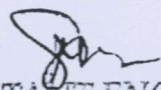


| Quantity executed since last Bill                                                                                                                                      | Quantity executed upto date as per measurement | Items of work or suppliers/grouped under 'sub-head' and 'sub-works' of estimate | Rate (Rs.) | Amount (Rs.) |                      | Remarks |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------|------------|--------------|----------------------|---------|
| 3                                                                                                                                                                      | 4                                              | 5                                                                               | 6          | Up to Date   | Since Previous Bills | 9       |
|                                                                                                                                                                        |                                                |                                                                                 |            | 50099.62     | 50099.62             |         |
|                                                                                                                                                                        |                                                | Less:- T.P. 9.01% below                                                         |            | 4513.98      | 4513.98              |         |
| <b>CERTIFICATE</b><br>Certified that the work has been executed as per the W.D./MORTH Specifications.<br><br>Assistant Engineer<br>W.D. Distt. Sub Division<br>Mandore |                                                | <b>Total</b> value of work done or supplies made                                |            | 45585.64     | 45585.64             |         |
|                                                                                                                                                                        |                                                | Deduct value of work or supplies shown on previous bill                         |            |              |                      |         |
|                                                                                                                                                                        |                                                | Net Value of work or supplies since previous bill figures in work (a)           |            | 45586        | 45586                |         |

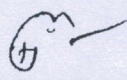
## II - Certificate and Signature

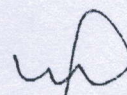
The measurement made by : Shri Nahar Singh Assistant Engineer,  
 recorded in M.B. No. 2164 Page no. 80 to 83

ETA YADAV  
 Signature of Contractor

  
 ASSISTANT ENGINEER  
 Assistant Engineer  
 BUILDING CELL  
 JAI NARAIN VYAS UNIVERSITY  
 JODHPUR

|                                                                  |                  |         |
|------------------------------------------------------------------|------------------|---------|
| for Rs 45586/- Fourty Five Thousand Five hundred Eighty Six only |                  |         |
| 8443 Deposit II (S.D.)                                           | 10%              | 4558/-  |
| Water Charges                                                    | 1%               | —       |
| 8658 Income Tax                                                  | 1.04%            | 474/-   |
| GST                                                              | 1%               | 456/-   |
| SGST                                                             | 1%               | 456/-   |
| Labour Cess                                                      | 1%               | 456/-   |
| 0853 Mining (Royalty)                                            | 1.50%            | —       |
| DFMT                                                             | (10% of Royalty) | —       |
| Total Deductions:-                                               |                  | 6401/-  |
| By Cheque                                                        |                  | 39185/- |
| G. Total                                                         |                  | 45586/- |
| Chargeable Head                                                  | RRM 2021-22      |         |

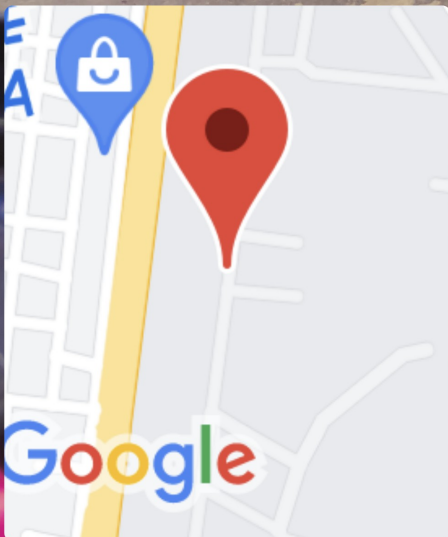
  
 Section Officer  
 SECTION OFFICER  
 Building Cell  
 Jai Narain Vyas University  
 Jodhpur

  
 University Engineer  
 UNIVERSITY ENGINEER  
 BUILDING CELL  
 Jai Narain Vyas University  
 JODHPUR (Ra.)





GPS Map Camera



## Jodhpur, Rajasthan, India

14, New Pali Rd, Bhagat Ki Kothi Extension  
Scheme, HI Area Phase II, Bhagat Ki Kothi,  
Jodhpur, Rajasthan 342001, India

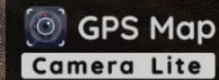
Lat 26.245417°

Long 73.016304°

17/09/22 02:22 PM GMT +05:30



# LED ROADLIGHTS INSIDE CAMPUS



82, Jogmaya Colony, Bhagat Ki Kothi, Jodhpur, Rajasthan  
342001, India

Latitude  
26.248105000000002°

Longitude  
73.02267833333333°

Local 10:18:53 AM  
GMT 04:48:53 AM

Altitude 187.3 meters  
Tuesday, 04-01-2022





## DEPARTMENT OF ARCHITECTURE AND TOWN PLANNING



GPS Map

Camera Lite

72CM+JFM, Haripua Viyas Colony, Ratanada, Jodhpur, Rajasthan 342001,  
India

Latitude

26.27161°

Longitude

73.0336472°

Local 10:19:33 AM

GMT 04:49:33 AM

Altitude 228 meters

Monday, 01.05.2023





GPS Map  
Camera Lite

72CM+H34, Haripua Viyas Colony, Ratanada, Jodhpur, Rajasthan 342001,  
India

Latitude

26.271299282088876°

Longitude

73.03276050835848°

Local 10:12:54 AM

GMT 04:42:54 AM

Altitude 229 meters

Monday, 01.05.2023





72CM+JFM, Haripua Viyas Colony, Ratanada, Jodhpur, Rajasthan 342001,  
India

Latitude

26.2716123°

Longitude

73.033602°

Local 10:20:30 AM

GMT 04:50:30 AM

Altitude 228 meters

Monday, 01.05.2023





NH62, Haripua Viyas Colony, Ratanada, Jodhpur, Rajasthan 342001, India

Latitude

26.27072222996503°

Longitude

73.03284583613276°

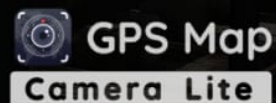
Local 10:13:37 AM

GMT 04:43:37 AM

Altitude 227 meters

Monday, 01.05.2023





72CM+828, Haripua Viyas Colony, Ratanada, Jodhpur, Rajasthan 342001,  
India

Latitude

26.270721559412777°

Longitude

73.03271155804396°

Local 10:13:15 AM

GMT 04:43:15 AM

Altitude 227 meters

Monday, 01.05.2023





 **GPS Map**  
**Camera Lite**

72CM+QCP, Haripua Viyas Colony, Air Force Area, Jodhpur, Rajasthan  
342001, India

Latitude

26.27178953960538°

Longitude

73.03359425626695°

Local 10:17:58 AM

GMT 04:47:58 AM

Altitude 231 meters

Monday, 01.05.2023





GPS Map  
Camera Lite

72CM+828, Haripua Viyas Colony, Ratanada, Jodhpur, Rajasthan 342001,  
India

Latitude

26.270972220227122°

Longitude

73.03274827077985°

Local 10:13:10 AM

GMT 04:43:10 AM

Altitude 229 meters

Monday, 01.05.2023





GPS Map  
Camera Lite

72CM+JFM, Haripua Viyas Colony, Ratanada, Jodhpur, Rajasthan 342001,  
India

Latitude

26.271652285940945°

Longitude

73.03373104892671°

Local 10:18:12 AM

GMT 04:48:12 AM

Altitude 228 meters

Monday, 01.05.2023





72CM+QCP, Haripua Viyas Colony, Air Force Area, Jodhpur, Rajasthan  
342001, India

Latitude

26.27189435530454°

Longitude

73.03342812694609°

Local 10:17:39 AM

GMT 04:47:39 AM

Altitude 231 meters

Monday, 01.05.2023





72CM+H34, Haripua Viyas Colony, Ratanada, Jodhpur, Rajasthan 342001,  
India

Latitude  
26.271494370885193°

Longitude  
73.03259974345565°

Local 10:12:34 AM  
GMT 04:42:34 AM

Altitude 231 meters  
Monday, 01.05.2023





3 Sabji Mandi, Haripua Viyas Colony, Ratanada, Jodhpur, Rajasthan 342001,  
India

Latitude

26.271930900402367°

Longitude

73.03343055769801°

Local 10:17:33 AM

GMT 04:47:33 AM

Altitude 231 meters

Monday, 01.05.2023



# JAI NARAIN VYAS UNIVERSITY JODHPUR

## ENVIRONMENT & ENERGY USE POLICY

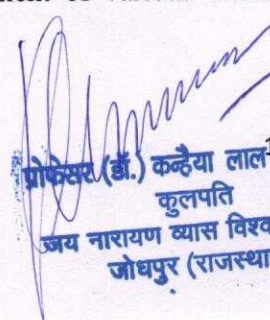
### PREAMBLE

The continuous exploitation of natural resources for economic growth by human beings is leading to degradation of environment, having an impact on earth's climate, the whole ecosystem and human health. Therefore, The Ministry of Environment and Forests, Government of India has given National Environment Policy in 2006 (<https://moef.gov.in/en/>), which is based on several existing policies (e.g. National Forest Policy 1988; National Conservation Strategy and Policy Statement on Environment and Development 1992; Policy Statement on Abatement of Pollution 1992; National Agriculture Policy 2000; National Population Policy 2000; National Water Policy 2002). The National Environment Policy states about our national commitment to a clean environment, mandated in the Constitution in Articles 48 A and 51 A (g), strengthened by judicial interpretation of Article 21, and recognizes the responsibility of every citizen to maintain and enhance quality of the environment.

Keeping in view the importance of protecting and conserving the environment, our University has developed a policy towards maintaining a healthy environment in all of its campuses, integrating energy use and conservation in its priority area. This policy addresses the key environmental challenges, conservation of critical environmental resources and integration of environmental concerns into its curricula, plans, and projects, ensuring judicious use of environmental resources towards sustainable development.

### OBJECTIVES

- Protection and conservation of environmental resources and ecosystem in the University.
- To ensure efficient use of environmental resources, including energy and water, by reducing their consumption to minimize adverse environmental impacts.
- Reduction in contribution to emission of fossil fuels.
- To develop and strictly follow the green campus initiatives in the University.
- Sustainable procurement of goods and services to reduce adverse environmental impact.
- Integration of environmental concerns into its development plans, policies and projects.
- Integration of environmental issues and knowledge about its conservation and regulations in its educational programmes and syllabi.
- Promoting the faculty members to execute research projects on the key environmental issues, such as climate change and developing remedial strategies to cope-up with these challenges.
- Reduction of the amount of waste generation, and development of various waste management practices in the campus.

  
प्रोफेसर (डॉ.) कन्हैया लाल<sup>1</sup> श्रीवास्तव  
कुलपति  
जय नारायण व्यास विश्वविद्यालय  
जोधपुर (राजस्थान)



- Raising awareness among its academic and research community and various stakeholders for adoption of environmental good practices.
- Application of the principles of good governance to regulate the use of environmental resources.

## **PRIORITY AREA/ACTION PLAN**

### **1. Energy Conservation**

The University shall reduce its CO<sub>2</sub> footprint by energy conservation and reducing its consumption in every possible way. It shall strive to maximize energy efficiency by using LED roadlights and LED bulbs/tubelights in classrooms/laboratories/seminar halls/offices etc. The newly constructed building will be designed in an energy-efficient way, with sufficient solar lights and proper cross-ventilation, minimizing the need of external light sources and air-conditioning. The lab equipments and other electric goods must be energy-efficient having high star-rating. The University will develop a system to continuously monitor the energy sources and its consumption, with an effort to cause least impact on the environment. It is also planning to install solar panels for renewable energy in its campuses in the near future.

### **2. Water Conservations**

The University shall strive to develop good practices for efficient management and conservation of water, through reducing its usage, promoting use of drip irrigation/sprinklers in its gardens and farms, rain water harvesting and artificial water recharge, construction of overhead/underground tanks for proper leak-proof storage of water, enhancement of groundwater recharge through revival of traditional practices, regular monitoring and maintenance of any type of leakage in closed pipeline system, reuse of waste water from water purification systems etc.

### **3. Waste management**

The University shall follow the practice of 3R for waste management: *Reduce, Reuse, and Recycle*. The disposal of all kinds of solid, liquid and e- waste shall be in an appropriate manner, so that it will have minimum harmful effect on the environment. For solid waste, land-fill approach shall be used by collecting the waste (such as debris, fallen leaves, sweepings in the pits), covered by soil. It can be used as compost in gardens, and a MOU shall be signed with Municipal Corporation for collection of waste material from various campuses, University hostels and staff residences at regular interval. Closed pipe systems shall be developed for Liquid waste, and utmost care shall be taken for hazardous chemicals, which will be collected and disposed off separately. Any waste material containing mutagenic agents (such as agarose gels having ethidium



bromide) or radioactivity, or contaminated/microbial cultures, and any genetically engineered microbe, plant, or animal material having recombinant DNA (foreign gene) will be disposed of as per the existing guidelines of the relevant government body. The e-waste management will be done by collection of such kind of material (e.g. obsolete computers, CPUs, UPS, batteries etc.) and their auction at regular intervals to the authorized vendors, at centralized level.

#### **4. Eco-friendly green campus**

The University shall improve the green cover of its campuses by regular plantation of local vegetation and proper maintenance practices, e.g. stopping the grazing by animals, use of integrated pest management techniques, ensuring the regular water supply for watering the plants etc. All departments/faculties shall organize such kind of plantation drives regularly, and take oath for proper care of the planted species. Beside this, the University shall follow the concept of “green building” (low maintenance and high energy efficient) for its new constructions, with least negative impact on the environment. It shall develop various mechanisms to keep the campus plastic-free and pollution-free.

#### **5. Environment education and awareness**

The University shall promote the environmental awareness by integrating the principles, values, and practices of sustainable development, various environmental issues and conservation in its academic curricula. It shall encourage its teaching and non-teaching staff, and students for hands on training in these matters, and sponsor lectures/ workshops to inculcate environmental awareness. The University shall also strive for environment sensitization in the local and regional community and general public, through various campaigns, rallies and street plays, seminars/conferences, workshops etc. It shall promote National and International collaborations and sponsor for joint research on environmental issues. It shall disseminate its environmental initiatives and activities through publications and media.

### **GREEN CAMPUS INITIATIVES**

A huge campus area in the University is in its virgin form, serving as a natural habitat for various species of plants and animals. The University is committed towards a “no harm” approach to the environment, and strives to fulfil its goals for protection and conservation of its rich biodiversity and local flora and fauna, for maintaining a healthy environment for its staff and students. The University has taken various green campus initiatives, as mentioned below:

- Paperless administration, e-governance in all major area such as admission and examinations, digital transaction.

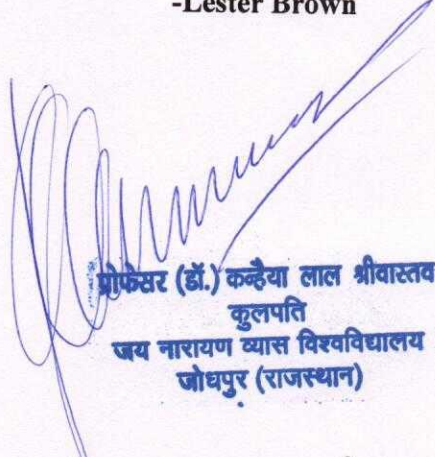


- Use of ICT-enabled tools and techniques for classroom teaching, and reduction in usage of paper for teaching and research purpose.
- Plastic-free campus/banning the use of single use plastic/plastic bags or items in any form.
- Segregation of biodegradable and non-biodegradable waste in different-coloured dustbins, and disposal of biodegradable waste in pits for compost.
- Reuse of waste water from distillation units for gardening purpose.
- Vehicle-free day, use of bicycle, car-pooling, use of public transport (observe every last Saturday of the month as “no vehicle day”, to reduce pollution caused by the increasing number of vehicles).
- Energy conservation initiatives: use of LED lighting in the campus.
- Procurement of highly energy-efficient equipments for laboratories.
- Green and clean campus initiatives, Swachh Bharat Abhiyan, plantation drives involving NCC/NSS volunteers/Scout and Guides rover rangers and various departments/faculties of the University.
- Awareness and sensitization of local community and University staff/students: posters/writings, essay/debate competitions, rallies, nukkad natak, involving NCC/NSS volunteers/Scout and Guides rover rangers
- Planning to install solar panels for electricity in its all campuses in the near future.
- Planning for a regular energy and environment audit in future.
- Planning for provision of e-rickshaws for transportation inside the campus in near future.

The University policy on environment and energy use will be reviewed continuously/each year

***“WE HAVE NOT INHERITED THIS EARTH FROM OUR FOREFATHERS,  
WE HAVE BORROWED IT FROM OUR CHILDREN...”***

**-Lester Brown**

  
**प्रोफेसर (डॉ.) कन्हैया लाल श्रीवास्तव**  
**कुलपति**  
**जय नारायण व्यास विश्वविद्यालय**  
**जोधपुर (राजस्थान)**