



NCC


SWSM PROJECTS – UP – GORAKHPUR

Project Name : Survey, Design, Preparation of DPR, Construction, Commissioning and O&M for 10 years of Various Rural Water Supply Project in the State of Uttar Pradesh– Gorakhpur District
Client : SWSM/DWSM-UP-GKP
Consultant : Medhaj Techno Concept Pvt. Ltd.
Contractor : NCC Limited

Request For Inspection

| | | | |
|-----------------------|-------------------------------------------------------------------------------------|------------------------------------|--|
| RFI No: | SWSM-UP-GKP/N/S/ TW/08 | Date And Time - 11/04/2022 10:15pm | |
| Description: | Lowering of pipe with Assembly and filling Gravel. | | |
| Location: | Block - Uruwa GP - Saran. | | |
| Preceding RFI No. | N.A. | | |
| Commencement of work: | 12/04/2022 | | |
| Submitted By: | Ankit Salunkhe | | |
| Signature: |  | | |
| Designation: | J.E (civil) | | |
| Concessionaire: | Proceed | Hold | |
| Name: | Shaitesh Singh | | |
| Designation: | Senior Engineer - | | |
| Comments: | ① Fee Gravel is not available @ work site. ② Fee Gravel sieve test Required. | | |


19/04/22
Signature
Contractor Representative



12/04/2022
S.P.S.A
Signature
Consultant Representative

Signature
Client Representative

NCC SWSM PROJECTS – UP – GORAKHPUR

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 Contractor : NCC Limited

Request For Inspection

| | | | |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------|------------|
| RFI No: | SWSM-UP-GKP/S/ TW/108/R ₁ | Date And Time - | 12/04/2022 |
| Description: | Rectification of Compliance. | | |
| Location: | Block- usawa, P.P- Saran | | |
| Preceding RFI No. | SWSM-UP-GKP/S/ TW/108 | | |
| Commencement of work: | 12/04/2022 | | |
| Submitted By: | Anat Sahas | | |
| Signature: |  | | |
| Designation: | JE (Civil) | | |
| Concessionaire: | Proceed | Hold | |
| Name: | | | |
| Designation: | | | |
| Comments: | <p>① Pea Enamel is not filled in Tubewell After Pipe lowering.</p> <p>② Pea-Enamel Test report is attached.</p> | | |


 Signature
 Contractor Representative


 Signature
 Consultant Representative

 Signature
 Client Representative

NCC
NCC Limited

NCC LTD.

STATE WATER AND SANITATION MISSION

CLIENT: JJM / SWSM /DWSM

GORAKHPUR-UP



SPECIFIC GRAVITY OF PEA GRAVELS (SIZE- 1.6 mm to 4.8 mm)

As per IS : 2386 (Part-3)

Date of Testing-

10/04/2022

Test report no :

NCC / GKP-S / QC / 107

| SL NO. | DESCRIPTION | OBSERVATIONS |
|--------|----------------------|------------------------------------|
| 1 | Source of material : | Zaulkuan, nainital, uttrakhand |
| 2 | Location : | NAME OF THE BLOCK - URWA |
| | | NAME OF THE GRAM PANCHAYAT - SARAM |
| 3 | Date of sampling : | 09/04/2022 |
| 4 | Lab. Test no : | 107 |
| 5 | Sample no : | 107 |

SPECIFIC GRAVITY TEST AT ROOM TEMPERATURE

| | | |
|----|------------------------------------------|------------------------------------------------------------------------|
| 6 | Weight of the Jar, W1 (gm)= | 252 gm |
| 7 | Weight of Jar + Gravel, W2 (gm)= | 471 gm |
| 8 | Weight of Jar + Gravel + Water, W3 (gm)= | 865 gm |
| 9 | Weight of the Jar + Water, W4 (gm)= | 729 gm |
| 10 | Specific Gravity = | $\frac{W2 - W1}{(W2 - W1) - (W3 - W4)} = \frac{219}{219 - 136} = 2.63$ |

Note : The Specific Gravity should not be less than 2.5

NCC LTD.

PMC/TPIA

CLIENT

GORAKHPUR-UP

SIEVE ANALYSIS OF PEA GRAVELS (SIZE-1.6 mm to 4.8 mm)

(As per IS : 460 and IS: 4097)

Date of Testing : 10/04/2022

Test report no : NCC/GKP/5/0.C/107

| SL NO. | DESCRIPTION | OBSERVATIONS |
|--------|----------------------------|-------------------------------------|
| 1 | Source of material : | Zalkum, nainital, uttrakhand |
| 2 | Location : | Block Name- URWA G.P Name- SARAM |
| 3 | Date of sampling : | 09/04/2022 |
| 4 | Lab. Test no : | 107 |
| 5 | Sample no. : | 107 |
| 6 | Total wt. of sample (gm) : | 2000 gm |

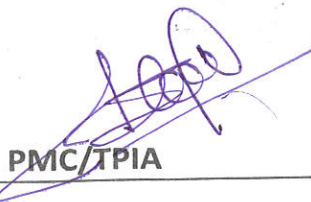
SIEVE ANALYSIS

| IS Sieve Size | retained | Cumulative wt. Retained (gm) | Cumulative % wt. Retained | % passing | Acceptable / Not Acceptable |
|---------------|----------|------------------------------|---------------------------|-----------|-----------------------------|
| 6.3 mm | 00 | 00 | 00 | 100 | |
| 4.75 mm | 65 | 65 | 6.5 | 93.5 | |
| 2.36 mm | 808 | 873 | 87.3 | 12.7 | |
| 1.18 mm | 124 | 997 | 99.7 | 0.3 | |
| Pan | 03 | | | | |
| Total(gm)= | 1000 | | | | |

The Hardness of Material is= 08

Note:- The Hardness value should not be less than 5 in Moh's scale.


NCC LTD.


PMC/TPIA


CLIENT

| | |
|------------------------------------------|---------------------------------------|
| NAME OF THE DISTRICT- GORAKHPUR | TYPE OF RIG M/C- RC |
| NAME OF THE BLOCK- URUWA | SIZE OF BORE- 550x500mm φ |
| NAME OF THE GRAM PANCHAYAT- SARAM | STATIC WATER LEVEL- 13M |
| NAME OF THE VILLAGE- | J.E Incharge _____ A.E Incharge _____ |

DISCHARGE - 550 LPM

| DEPTH B.G.L. IN METER | BORING CHART | STRATA | EXECUTED ASSEMBLY | ASSEMBLY DETAILS |
|-----------------------|--------------|----------------------|-------------------|--------------------------------------------------------------------------|
| 0.0M | | GL | | 200 mm Dia Housing Pipe A.G.L. = 0.50 m |
| | | | | 200 mm Dia Housing Pipe _____ m to 35.69 m |
| | | | | 200/150 mm Dia Reducer 35.19 m to 35.39 m |
| | | | | 150 mm Dia BLIND pipe 35.39 m to 72.45 m |
| | | SANDY CLAY | | 150 mm Dia SLOTTED pipe 72.45 m to 78.48 m |
| | | | | 150 mm Dia BLIND pipe 78.48 m to 113.60 m |
| | | | | 150 mm Dia SLOTTED pipe 113.60 m to 119.66 m |
| | | | | 150 mm Dia BLIND pipe 119.66 m to 128.72 m |
| 30.0M | | | | 150 mm Dia SLOTTED pipe 128.72 m to 134.77 m |
| 35.0M | | FINE SAND | 35.19M | 150 mm Dia BLIND pipe 134.77 m to 140.81 m |
| 40.0M | | CONCRETE CLAY | 35.39M | _____ mm Dia _____ pipe _____ m to _____ m |
| | | | | _____ mm Dia _____ pipe _____ m to _____ m |
| | | | | _____ mm Dia _____ pipe _____ m to _____ m |
| | | | | _____ mm Dia _____ pipe _____ m to _____ m |
| 60.0M | | | | _____ mm Dia _____ pipe _____ m to _____ m |
| | | MEDIUM SAND | | _____ mm Dia _____ pipe _____ m to _____ m |
| | | | | _____ mm Dia _____ pipe _____ m to _____ m |
| | | | | _____ mm Dia _____ pipe _____ m to _____ m |
| | | | | _____ mm Dia _____ pipe _____ m to _____ m |
| | | | | _____ mm Dia _____ pipe _____ m to _____ m |
| | | SANDY CLAY | | _____ mm Dia _____ pipe _____ m to _____ m |
| 72.0M | | | 72.45M | _____ mm Dia _____ pipe _____ m to _____ m |
| | | MEDIUM SAND | | _____ mm Dia _____ pipe _____ m to _____ m |
| 79.0M | | | 78.48M | _____ mm Dia _____ pipe _____ m to _____ m |
| | | | | _____ mm Dia _____ pipe _____ m to _____ m |
| | | SANDY CLAY | | _____ mm Dia _____ pipe _____ m to _____ m |
| | | | | _____ mm Dia _____ pipe _____ m to _____ m |
| | | | | _____ mm Dia _____ pipe _____ m to _____ m |
| 94.0M | | MEDIUM SAND | | _____ mm Dia _____ pipe _____ m to _____ m |
| 98.0M | | | | _____ mm Dia _____ pipe _____ m to _____ m |
| | | | | _____ mm Dia _____ pipe _____ m to _____ m |
| 0M | | SANDY CLAY | | _____ mm Dia _____ pipe _____ m to _____ m |
| | | | | _____ mm Dia _____ pipe _____ m to _____ m |
| | | | | _____ mm Dia _____ pipe _____ m to _____ m |
| 122.0M | | MEDIUM SAND | 113.60M | _____ mm Dia _____ pipe _____ m to _____ m |
| 128.0M | | SANDY CLAY | 119.66M | _____ mm Dia _____ pipe _____ m to _____ m |
| | | | 128.72M | _____ mm Dia _____ pipe _____ m to _____ m |
| | | MEDIUM SAND | 134.77M | _____ mm Dia _____ pipe _____ m to _____ m |
| | | | 140.81M | _____ mm Dia _____ pipe _____ m to _____ m |
| 141.0M | | | | _____ mm Dia _____ pipe _____ m to _____ m |
| | | | | _____ mm Dia _____ pipe _____ m to _____ m |
| 167.0M | | | | _____ mm Dia _____ pipe _____ m to _____ m |
| | | | | _____ mm Dia _____ pipe _____ m to _____ m |

Total Assembly = **140.81** m + A.G.L. (m) = **141.31** m

ABSTRACT

1. Drilling Started-
2. Drilling Completed/Lowering- **12/08/2022**
3. Drilling Depth (m)- **167.0M**
4. Assembly Lowered (m)- **141.31M**
5. Housing Pipe (m)- **35.69M**
6. Plain Pipe (m)- **87.28M**
7. Slotted Pipe (m)- **18.14M**
8. Reducer (m)- **0.20M**

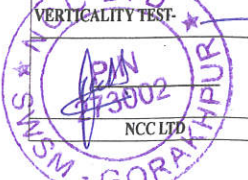
LOGGING REPORT

- 1- **30 - 35** → **5.0**
- 2- **40 - 60** → **20.0**
- 3- **72 - 79** → **7.0**
- 4- **82 - 85** → **3.0**
- 5- **94 - 98** → **4.0**
- 6- **112 - 122** → **10.0**
- 7- **128 - 141** → **13.0**
- 8-
- 9-
- 10-

BAIL PLUG

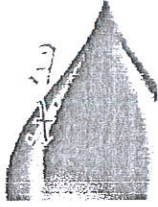
SOUND TEST

VERTICALITY TEST



(Nandukhosad) (Bobbongad) (Mankanday Singh)
 J.E & A.E P.M.C/T.P.A

Saram
 E.E



Aqua Xplore

(Groundwater Assessment & Allied Services)

243/5, New Colony Jiyamau, Hazratganj, Lucknow – 226001
Mob. 9918202546 / 9889323322, Email-aquaxplore1ko@gmail.com

Advisor- Dr. R. A. Yadav, ex- Manager(Groundwater), U. P. Jal Nigam

Ref 401 - S / AX - 2022

Date 01.04.2022

Geophysical Borehole Logging Report

Name of the site : Saram, Block- Uruwa

District : Gorakhpur

Date : 01.04.2022

Depth logged : 150.0 mbgl

Depth drilled : 167.0 mbgl- as reported

Logged by : Aqua Xplore

Presence : Representative of M/S NCC Limited, Gorakhpur - South

Based on the interpretation of geophysical logs, following information may be deciphered, particularly with respect to salinity of the formation water;

| Sl.No. | Depth range(mbgl) | Thickness(m) | Remarks |
|--------------|-------------------|--------------|----------|
| 1 | 30.0---35.0 | 5.0 | Good all |
| 2 | 40.0---60.0 | 20.0 | |
| 3 | 72.0---79.0 | 7.0 | |
| 4 | 82.0---85.0 | 3.0 | |
| 5 | 94.0---98.0 | 4.0 | |
| 6 | 112.0---122.0 | 10.0 | |
| 7 | 128.0---141.0 | 13.0 | |

Note. Sl.No. 1 is fine sand. All zones are intermixed with fine bands of kankar.

for Aqua Xplore

CC;

1. Executive Engineer, C.D. (Rural), U.P.Jal Nigam, Gorakhpur.
2. M/S NCC Limited, Gorakhpur –South, SWSM Project.

Verified as per logs provided.
Note - Sr No 6 and 7 have thin bands of finer sediments.

G. S. N.
ASSISTANT HYDROGEOLOGIST
U.P. JAL NIGAM (RURAL)
PRAYAGRAJ



TECHPRO ENGINEERS PVT. LTD.

(Laboratory Division)

Lab Add. 131, Ram Ganga Housing Society, Naramau, Kanpur- 209217,

Tel.: 0512-2525759, 09793209918, Web site: www.techproindia.com

e-mail: tepllab@gmail.com, info@techproindia.com,

Doc No.: TEQR-36C, Issue No.: 02, Issue Date: 18/08/20, Rev. No. : 01, Rev. Date: 10/12/2020

TEPL/MT/2022/136/R1

Dated: 05-03-2022

TEST REPORT

| | | |
|----------------------------|---|-----------------------------------------------------------|
| Name of Customer | : | Jal Nigam, Gorakhpur |
| Project | : | SWSM-JJM Project (Har Ghar Jal Mission) at Gorakhpur U.P. |
| Reference No. | : | SWSM-UP/GKP/QC/77 |
| Sample supplied to Lab by | : | Customer representative |
| Name of Contractor/ Agency | : | NCC Ltd. |
| Sample Particulars | : | Pea-Gravel |

| | | | | | |
|---------------------|---|--------------------------|-------------------|---|--------------------------|
| Sample Receipt Date | : | 03/03/2022 | Job No. | : | MT136 |
| Condition of sample | : | Satisfactory | SRF No. | : | 2022/29 |
| Type of Sample | : | Pea-Gravel | ULR No. | : | NA |
| Source of sample | : | Lalkuan (Uttarakhand) | Period of Testing | : | 03/03/2022 to 05/03/2022 |

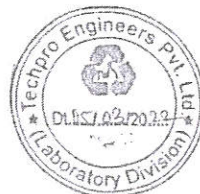
Terms & Conditions:

| | |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Results relate only to the test sample provided by customer. |
| 2 | This report is under copyright of Techpro Engineers Pvt. Ltd. (Laboratory Division) and is not to be reproduced, copied, handed over third party or used for any purpose other than for which it has been loaned. |
| 3 | The tested samples are retained for three months after issue of test report (if not collected by customer). |
| 4 | The unique identification of sample is as Job No. / Chainage No. /BH. No./Sl. No. But only Sl. No is mentioned in results. |

Checked By:

Alok Chauhan

Alok Kumar Chauhan
(Technical Manager)



Approved By:

Arvind Kumar Garg

Arvind Kumar Garg
(Quality Manager)



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e-mail: tepllab@gmail.com, info@techproindia.com,

Doc No.: TEQR-36C, Issue No.: 02, Issue Date: 18/08/20, Rev. No. : 01, Rev. Date: 10/12/2020

1. PHYSICAL TEST RESULT OF PEA GRAVEL

Sample Unique ID: MT136/TEPL/02

| Sl. No. | Particular of Test | Test Passing % | Specification As Per IS (383 & 4097) | Test Method | Remarks |
|---------|-----------------------------------------------------|----------------|--------------------------------------|--------------------------------|--------------------|
| 1.0 | Sieve Analysis (% by weight) | 12.5 mm | 100 | IS 2386 (Part-1) 1963, RA-2016 | - |
| | | 8.0 mm | 100 | | |
| | | 6.30mm | 100 | | |
| | | 4.75 mm | 80.90 | | |
| | | 3.35 mm | 14.40 | | |
| | | 2.00 mm | 8.60 | | |
| 2.0 | Combined Flakiness & Elongation Index (% by weight) | 0.0 | 40 Max | IS 2386 (Part-1)-1963, RA-2016 | Partical Size >6.3 |
| 3.0 | Water Absorption (% by weight) | 0.90 | 5 Max | IS 2386 (Part-3)-1963 RA-2016 | - |
| 4.0 | Specific Gravity | 2.66 | 2.1 - 3.2 | IS 2386 (Part-3)-1963 RA-2016 | - |
| 5.0 | Hardness Test (Number) | 7.3 | 5 Min | IS 13630 (Part-13)-2006 | - |
| 6.0 | Bulk Density , Kg/litre | | | IS 2386 (Part-3)-1963 RA-2016 | - |
| | a) Compacted | 1.59 | NA | | |
| | b) Loose | 1.49 | NA | | |



Checked By:

Alok Chauhan

Alok Kumar Chauhan
(Technical Manager)



Approved By:

Arvind Kumar Garg

Arvind Kumar Garg
(Quality Manager)



TECHPRO ENGINEERS PVT. LTD.

(Laboratory Division)

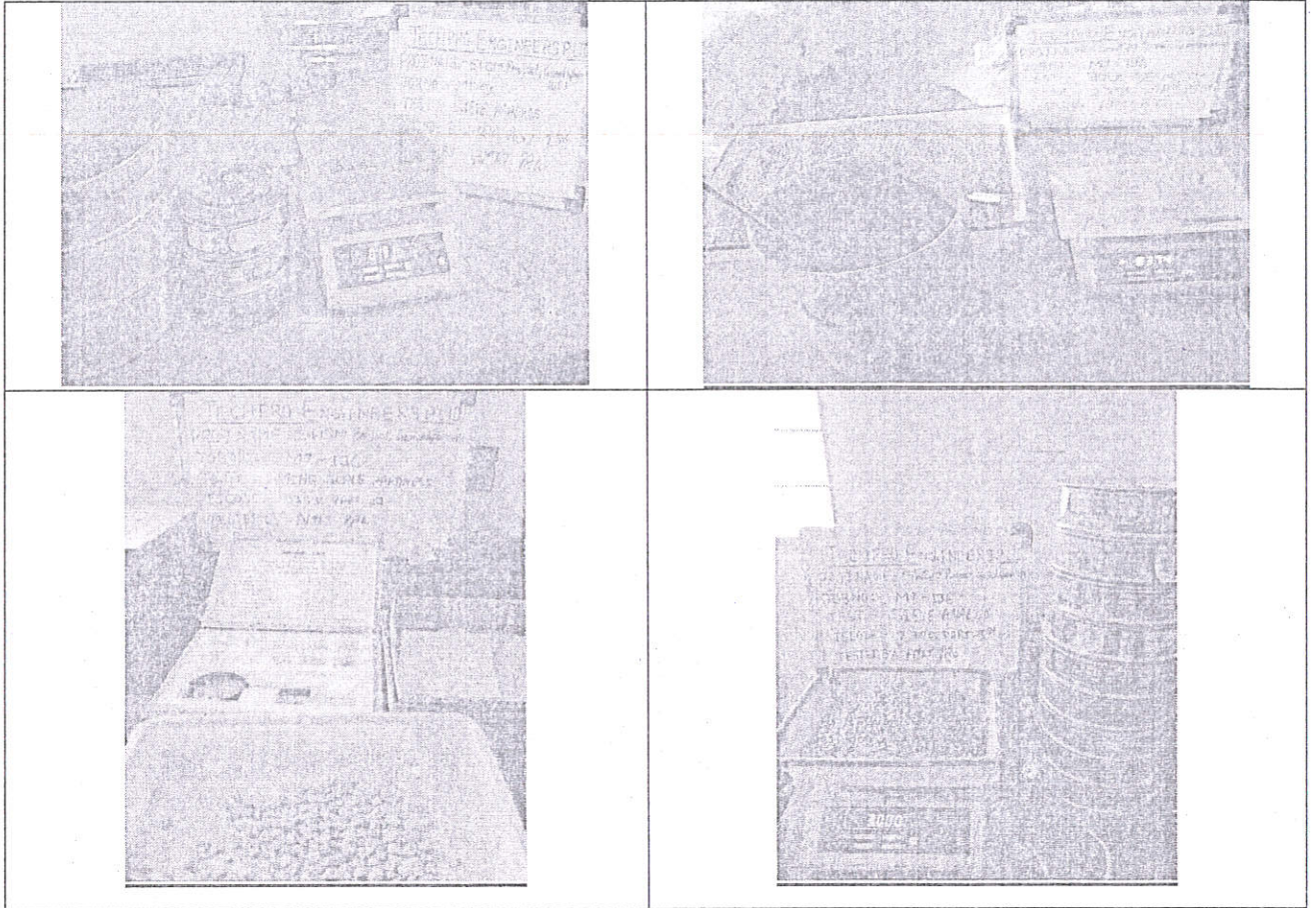
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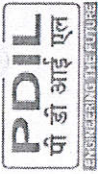
e-mail: tepllab@gmail.com, info@techproindia.com,

Doc No.: TEQR-36C, Issue No.: 02, Issue Date: 18/08/20, Rev. No. : 01, Rev. Date: 10/12/2020

PHOTOGRAPHS



END OF REPORT



प्रोजेक्ट्स एण्ड डेवलपमेंट इण्डिया लिमिटेड
PROJECTS & DEVELOPMENT INDIA LIMITED

Inspection Report/Certificate

Certificate/Report No. 1500-005000049280-C
Dated 14.02.2022

| | | | |
|----------------------------|-------------------------------------------------|----------------------------|------------|
| Client /Purchaser | M/S SWSM LUCKNOW / M/S NCC LIMITED | Inspection office | INSP NOIDA |
| P.O. No. & Date | M/S SWSM-GORAKHPUR (S) / 1833 /21-22 21.12.2021 | Start Date of Inspection | 13.02.2022 |
| Supplier /Manufacturer | M/S GAURANG PRODUCTS PVT. LTD. | End Date of Inspection | 13.02.2022 |
| Sub Supplier | NA | PDIL Job no | 4004006945 |
| Sub supplier P.O.No & date | NA | PDIL Sales Order No. | |
| Project Name | GORAKHPUR SOUTH PROJECT | Total P.O. value | 57.83LAC. |
| Client Reference | COMPLETE | Total inspected item value | 57.83LAC. |
| P.O.Status | COMPLETE | IC/R Status | APPROVED |
| | | Inspection Status | FINAL |

| Sl No. | P.O./BOM /Item No. | Description (Nomenclature, Size, Final Specification) | Unit | Ordered Qty | Offered Qty | Inspected Qty | Status | Accepted Qty | Cummulative Qty | Document Ref. | Heat no./batch No./Earlier certificate NO./material identification etc. |
|--------|--------------------|-------------------------------------------------------|-------|-------------|-------------|---------------|--------|--------------|-----------------|----------------|-------------------------------------------------------------------------|
| 1 | | MS ERW PIPE 150MM X 5MM THICK | MTRS. | 2688 | 2700 | 2700 | A | 2688 | 2688 | AS PER IS 4270 | BATCH NO. 01022022 |
| 2 | | MS ERW PIPE 200MM X 5.4MM THICK | MTRS. | 936 | 942 | 942 | A | 936 | 936 | -DO- | BATCH NO. 18012022 |

Inspection/Test:

INSPECTION CARRIED OUT AS PER APPROVED QAP & IS4270

- 1) VISUAL & PHYSICAL INSPECTION FOR QUANTITY, MARKING, FINISHING AND FOUND OK.
- 2) DIMENSION CHECKED AND FOUND WITHIN TOLERANCE LIMITS.
- 3) TENSILE TEST, ELONGATION, FLATTENING & HYDRO TEST WITNESSED OF RANDOMLY SELECTED SAMPLES AND RESULTS FOUND SATISFACTORY.
- 4) INTERNAL REPORT, MTC AND CALIBRATION CERTIFICATES REVIEWED AND FOUND IN ORDER.
- 5) FOR IDENTIFICATION MATERIAL STAMPED AS "PDIL/11".

Enclosure:

- 1) MATERIAL TEST CERTIFICATE (2) CALIBRATION CERTIFICATE (3) INSPECTION REPORT

Remarks:

MATERIAL RELEASED FOR DISPATCH AS PER TERMS & CONDITIONS OF PURCHASE ORDER.

अंकित अरोरा / Ankit Arora

अंकित अरोरा (अंकित अरोरा द्वारा)

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ASNT Level-II (UT/RT/MT/PT)

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अंकित अरोरा (अंकित अरोरा द्वारा)

This Inspection Certificate is issued with the assurance of the supplier and does not relieve him from the guarantees and obligations set forth in purchase order and attachment.

Signature

Name

Company/Organization

Client/Purchaser

Supplier/Manufacturer

Sub Supplier

Slab's Code (for details refer remarks): Approved By (Customer/Cleanance) Required, D-Deviated, P- Partial Accepted, R- Rejected, S- Stage, W- Rework, X-Refer Remarks

Estimate for SARAM Gram Panchayat
 Water Supply Scheme
 Under - SWSM
 Block - Uruwa, District - Gorakhpur

| BOQ Item No. | Description | Unit | Qty | Rate | Amount |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------|-----------|--------|
| | Survey, Design & Preparation of DPR | | | | |
| 1.01 | All the works including Hydrological survey, topographical survey, Design charges including preparation and approval of DPR | LS | 1.00 | 199004.00 | 199004 |
| 2.00 | Drilling of Borehole for Tubewell construction by DC/RC/DTH Rig Machine including transportation, erection, dismantling of Rig and associated T&P complete in all respect including required all material labour etc. | | | | |
| 2.01 | RIG Transportation for Tube Well Construction Transportation, Installation Dismantling of Rig machine and logging of bore hole | Job | 1.00 | 159478.88 | 159479 |
| 2.03 | Tube Well Construction- Drilling of Borehole DC/RC Drilling up to 100Mtr. | | | | |
| 2.04 | 400 MMØ | Mtr. | | 1638.27 | |
| 2.05 | 450 MMØ | Mtr. | | 1834.20 | |
| 2.06 | 500 MMØ | Mtr. | 60.00 | 2013.00 | 120780 |
| 2.06.01 | 550 MMØ | Mtr. | 40.00 | 2422.00 | 96880 |
| 2.07 | 600 MMØ | Mtr. | | 2422.00 | |
| 2.08 | DC/RC Drilling from 101 Mtr. To 200 Mtr.Deep | | | | |
| 2.09 | 450 MMØ | Mtr. | | 1960.88 | |
| 2.10 | 500 MMØ | Mtr. | 67.00 | 2144.00 | 143648 |
| 2.11 | 600 MMØ | Mtr. | | 2510.25 | |
| 2.12 | DC/RC Drilling from 201 Mtr. To 300 Mtr.Deep | | | | |
| 2.13 | 450 MMØ | Mtr. | | 2831.63 | |
| 2.14 | 500 MMØ | Mtr. | | 3014.75 | |
| 2.15 | 600 MMØ | Mtr. | | 3381.00 | |
| 2.16 | DC/RC Drilling from 301 Mtr. To 400 Mtr.Deep & above | | | | |
| 2.17 | 450 MMØ | Mtr. | | 3319.35 | |
| 2.18 | 500 MMØ | Mtr. | | 3502.48 | |
| 2.19 | 600 MMØ | Mtr. | | 3868.72 | |
| 2.20 | DTH Drilling upto 200.0 Mtr.Deep | | | | |
| 2.21 | 200/165 MMØ (in over burden/Hard Rock) | Mtr. | | 1250.00 | |
| 2.22 | Development / Flushing of tubewell | Hr. | | 2900.00 | |
| | Tubewell Assembly (Supply + Fittings & Specials) | | | | |
| 3.01 | MSERW plain pipe, As per IS 4270 | | | | |
| 3.02 | 100 MMØ | Mtr. | | 927.50 | |
| 3.03 | 150 MMØ | Mtr. | 96.00 | 1900.00 | 182400 |
| 3.04 | 200 MMØ | Mtr. | 36.00 | 2550.00 | 91800 |
| 3.05 | 300 MMØ | Mtr. | | 3800.00 | |
| 3.06 | MSERW Pipe slotted pipe as per IS 8110 | | | | |
| 3.07 | 100 MMØ | Mtr. | | 1366.85 | |
| 3.08 | 150 MMØ | Mtr. | 18.00 | 2800.00 | 50400 |
| 3.09 | 200 MMØ | Mtr. | | 3833.80 | |
| 3.10 | 300 MMØ | Mtr. | | 5188.59 | |
| 3.11 | MS fittings such as clamp, bail plug, reducer, well cap, girder & support structure | LS | 1.00 | 32295.00 | 32295 |
| 3.12 | MS fittings such as ring & centre guide | RM | 150.00 | 471.68 | 70752 |
| | Tubewell Assembly Lowering Works | | | | |
| | Lowering of above assembly with welding of parts complete in all respect with all required material, T&P, labour, etc. | | | | |
| 4.01 | Lowering up to 100 Mtr. Deep | | | | |
| 4.02 | 100 MMØ MSERW Plane/Slotted Pipe | Mtr. | | 129.45 | |
| 4.03 | 150 MMØ MSERW Plane/Slotted Pipe | Mtr. | 64.00 | 281.00 | 17984 |
| 4.04 | 200 MMØ MSERW Plane/Slotted Pipe | Mtr. | 36.00 | 376.50 | 13554 |
| 4.05 | 300 MMØ MSERW Plain/Slotted Pipe | Mtr. | | 472.00 | |
| 4.06 | Lowering from 101 Mtr. To 200 Mtr. Deep | | | | |

| BOQ Item No. | Description | Unit | Qty | Rate | Amount |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|-----------|--------|
| 4.07 | 150 MMØ MSERW Pipe/Slotted Pipe | Mtr. | 50.00 | 376.00 | 18800 |
| 4.08 | 200 MMØ MSERW Pipe/Slotted Pipe | Mtr. | | 499.19 | |
| 4.09 | 300 MMØ MSERW Pipe/Slotted Pipe | Mtr. | | 745.58 | |
| 4.10 | Lowering from 201 Mtr. To 300 Mtr. Deep | | | | |
| 4.11 | 150 MMØ MSERW Pipe/Slotted Pipe | Mtr. | | 385.19 | |
| 4.12 | 200 MMØ MSERW Pipe/Slotted Pipe | Mtr. | | 459.00 | |
| 4.13 | 300 MMØ MSERW Pipe/Slotted Pipe | Mtr. | | 606.62 | |
| 4.14 | Lowering from 301 Mtr. To 400 Mtr. Deep & above | | | | |
| 4.15 | 150 MMØ MSERW Pipe/Slotted Pipe | Mtr. | | 426.53 | |
| 4.16 | 200 MMØ MSERW Pipe/Slotted Pipe | Mtr. | | 499.00 | |
| 4.17 | 300 MMØ MSERW Pipe/Slotted Pipe | Mtr. | | 643.94 | |
| 5.00 | Supply and Packing of Gravel Works Supply and unconsolidated packing of gravel with suitable size | Cum | 47.00 | 7500.00 | 352500 |
| | Development of Tube well | | | | |
| 6.01 | Tranportation, Installation Dismantling of 150 PSI Compressor | Job | | 42120.00 | |
| 6.02 | Charges for Development by 150 PSI Compressor per hour | Hr. | | 2544.52 | |
| 6.03 | Tranportation, Installation Dismantling of 250/400/600 PSI Compressor | Job | 1.00 | 42120.00 | 42120 |
| 6.04 | Charges for Development by 250 PSI Compressor per hour | Hr. | 60.00 | 3027.00 | 181620 |
| 6.05 | Charges for Development by 400 PSI Compressor per hour | Hr. | | 3154.10 | |
| 6.06 | Charges for Development by 600 PSI Compressor per hour | Hr. | | 4062.20 | |
| 6.07 | Tranportation, Installation Dismantling of 0.5 Cusec OP Unit and Yield test, water test | Job | | 22321.28 | |
| 6.08 | Charges for Development of TW by 0.5 Cusec OP Unit | Hr. | | 785.42 | |
| 6.09 | Tranportation, Installation Dismantling of 1 Cusec to 3 Cusec OP Unit and Yield test, water test | Job | 1.00 | 67225.00 | 67225 |
| 6.10 | Charges for Development of TW by 1 cusec OP Unit | Hr. | 100.00 | 959.00 | 95900 |
| 6.11 | Charges for Development of TW by 3 cusec OP Unit | Hr. | | 1196.00 | |
| 6.12 | Tranportation, Installation Dismantling of 2 Cusec OP Unit and Yield test, water test | Job | | 89317.00 | |
| 6.13 | Charges for Development of TW by 2 cusec OP Unit | Hr. | | 1119.00 | |
| 7.00 | Pumping Plant:- SITC of Pumping plant including pumps with motors starter, pannel, cable, complete in all respect with all required material T&P labour etc. | | | | |
| 7.01 | 1 HP | Nos | | 32518.98 | |
| 7.02 | 2 HP | Nos | | 35843.14 | |
| 7.03 | 3 HP | Nos | | 46249.21 | |
| 7.04 | 5 HP | Nos | | 65037.95 | |
| 7.05 | 7.5HP | Nos | | 228500 | |
| 7.06 | 10 HP | Nos | | 230200 | |
| 7.07 | 12.5 HP | Nos | 1.00 | 238800 | 238800 |
| 7.08 | 15 HP | Nos | | 252100 | |
| 7.09 | 17.5 HP | Nos | | 276504.56 | |
| 7.10 | 20 HP | Nos | | 295500 | |
| 7.11 | 25 HP | Nos | | 334043.48 | |
| 7.12 | 30 HP | Nos | | 366163.04 | |
| 7.13 | 35 HP | Nos | | 393723.7 | |
| 7.14 | 40 HP | Nos | | 426547.83 | |
| 7.15 | Variation in HP due to change of site locations increased/decreased in per HP of the proposed pumping plants. | Rate/HP | | 30467 | |
| 8.00 | Pressure Transmitter | Nos | 1.00 | 43120 | 43120 |
| | Electrically operated Sluice Valve:- | | | | |
| 9.00 | Electrically operated Sluice Valve PN 1.0 dia 100 mm | Nos | 1.00 | 125000 | 125000 |
| A.1. 9.01 | Electrically operated Sluice Valve PN 1.0 dia 80 mm | Nos | 2.00 | 125000 | 250000 |
| 9.01 | Electrically operated Sluice Valve PN 1.0 dia 150 mm | Nos | | 125000 | |
| 9.02 | Electrically operated Sluice Valve PN 1.0 dia 200 mm | Nos | | 150000 | |
| | Check Valve:- | | | | |
| 9.03 | Check Valve PN 1.0 DPCV dia 100 mm | Nos | | 27519.8 | |
| A.1. 9.03.01 | Check Valve PN 10 DPCV dia 80 mm | Nos | 1.00 | 27519.8 | 27520 |
| 9.04 | Check Valve PN 1.0 DPCV dia 150 mm | Nos | | 51145.45 | |
| 9.05 | Check Valve PN 1.0 DPCV dia 200 mm | Nos | | 73485.9 | |

[Handwritten Signature]