

# 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/S/ Tw/136	Date And Time - 12/06/2022	
Description:	Lowering of Tubewell Assembly & Billing of Pea - Gravel.		
Location:	Block- Belghat, Cit- Dehra Tika		
Preceding RFI No.	NA		
Commencement of work:	13/06/2022		
Submitted By:	Babrom Karai		
Signature:	By.		
Designation:	JE (CIVIL)		
Concessionaire:		Proceed	Hold
Name:			
Designation:			
Comments:	①. Hr frame & support not fabricated, on site - ②. Pea gravel not available - on site - ③. safety Barricading not done on site -		

By.

Signature  
Contractor Representative

Shailash  
F.P.I.A.

Signature  
Consultant Representative

Signature

Signature  
Client Representative

# NCC SWSM PROJECTS – UP – GORAKHPUR

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## Request For Inspection

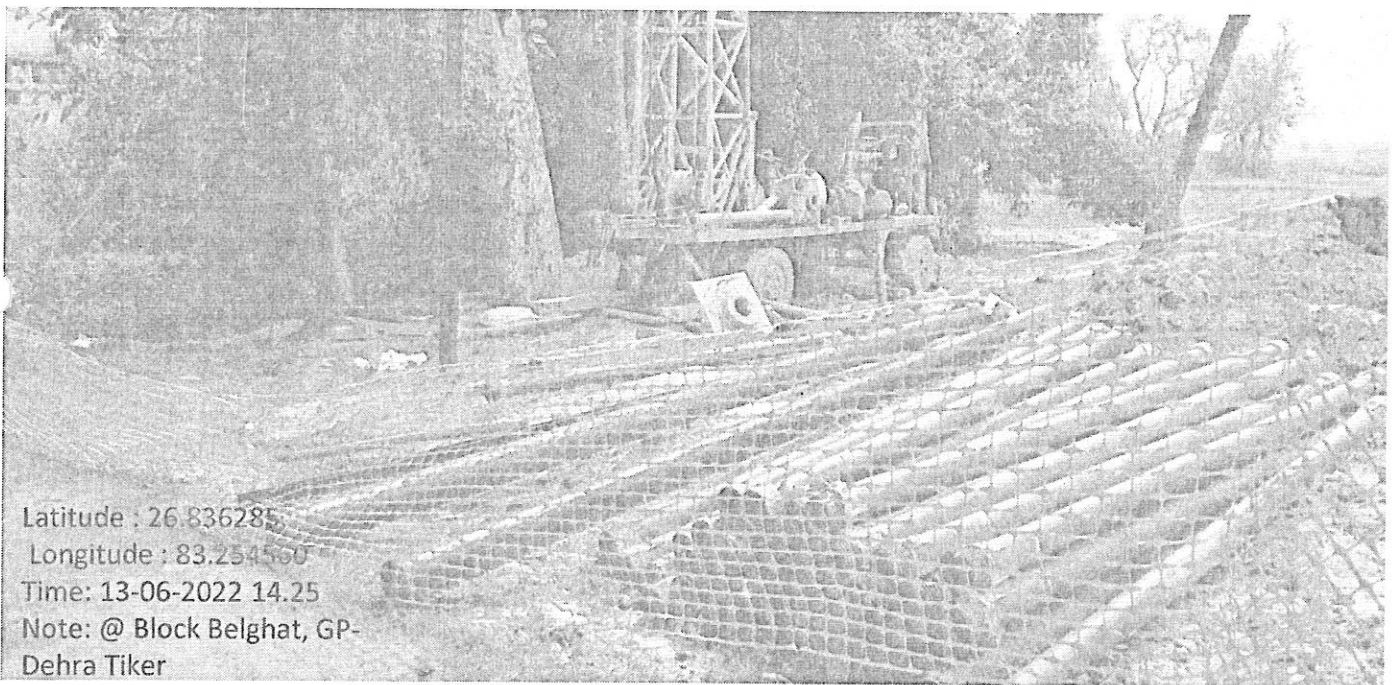
RFI No:	SWSM-UP-GKP/S/ TW/13/DR1	Date And Time -	13/06/2022
Description:	Rectification of Compliance.		
Location:	Block- Belghat, C.P- Dehra Tiker.		
Preceding RFI No.	SWSM-UP-GKP/S/ TW/13/6		
Commencement of work:	13/06/2022		
Submitted By:	Balram Gaurai		
Signature:	By.		
Designation:	JE (Civil)		
Concessionaire:	Proceed	Hold	
Name:			
Designation:			
Comments:	<p>① H-frame support gets fixed with tubewell Assembly.</p> <p>② Lea-Crownd reacted onsite.</p> <p>③ <del>sa</del> safety bowing gets done onsite</p>		

By.  
 Signature  
 Contractor Representative

Signature  
 Consultant Representative

Signature  
 Client Representative

# Dehra Tiker







NCC LTD.

STATE WATER AND SANITATION MISSION

CLIENT: JJM / SWSM / DWSM



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 : 12/06/2022  
Test report no : NCC/GRPS/SC/137

SL NO.	DESCRIPTION	OBSERVATIONS
1	Source of material :	Lalkuan, Morinda, Uttaranchal
2	Location :	Block Name- BELGHAT G.P Name- DEHRA TIKER
3	Date of sampling :	11/06/2022
4	Lab. Test no :	137
5	Sample no. :	137
6	Total wt. of sample (gm) :	1000 gm

## SIEVE ANALYSIS

IS Sieve Size	retained	Cumulative wt. Retained (gm)	Cumulative % wt. Retained	% passing	Acceptable / Not Acceptable
6.3 mm	06	06	0.6	99.4	OK
4.75 mm	127	133	13.3	86.7	OK
2.36 mm	761	894	89.4	10.6	OK
1.18 mm	105	999	99.9	0.1	OK
Pan	01				
Total(gm)=					

The Hardness of Material is=

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

NCC LTD.

PMC/TPIA

CLIENT

**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-

12/08/2022

Test report no :

Ncc/GKP-S/Bcl/137

SL NO.	DESCRIPTION	OBSERVATIONS
1	Source of material :	Lalkuan, Nainital, uttaranchal.
2	Location :	NAME OF THE BLOCK - BELGHAT
		NAME OF THE GRAM PANCHAYAT - DEHRA TIKER
3	Date of sampling :	11/08/2022
4	Lab. Test no :	137
5	Sample no :	137

**SPECIFIC GRAVITY TEST AT ROOM TEMPERATURE**

6	Weight of the Jar, W1 (gm)=	252gm	
7	Weight of Jar + Gravel, W2 (gm)=	474gm	
8	Weight of Jar + Gravel + Water, W3 (gm)=	869gm	
9	Weight of the Jar + Water, W4 (gm)=	724gm	
10	Specific Gravity	$\frac{W2 - W1}{(W2 - W1) - (W3 - W4)}$	$= \frac{222}{222 - 145} = 2.88$
	=		

Note : The Specific Gravity should not be less than 2.5

NCC LTD.

PMC/TPIA

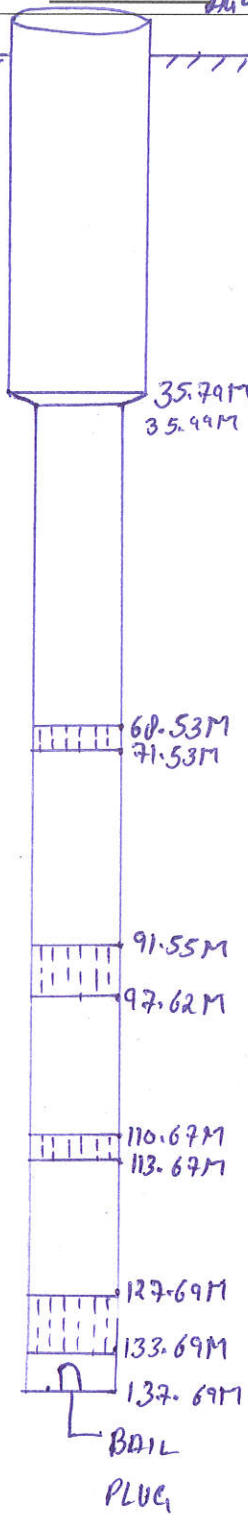
CLIENT



NAME OF THE DISTRICT- <b>CORAKHPUR</b>	TYPE OF RIG/M/C- <b>RC</b>
NAME OF THE BLOCK- <b>BELGHAT</b>	SIZE OF BORE- <b>500/500 mm φ</b>
NAME OF THE GRAM PANCHAYAT- <b>DEHRATIKER</b>	STATIC WATER LEVEL- <b>137M</b>
NAME OF THE VILLAGE- <b>DEHRA TIKER</b>	J.E Incharge _____ A.E Incharge _____

DISCHARGE - 450 LPM

DEPTH B.G.L. IN METER	BORING CHART	STRATA	EXECUTED ASSEMBLY	ASSEMBLY DETAILS
0M		GL		200 mm Dia Housing Pipe A.G.L. = 0.50 m
				200 mm Dia Housing Pipe _____ m to 36.29 m
				200/150 mm Dia Reducer 35.99 m to 35.99 m
		SANDY CLAY		150 mm Dia BLIND pipe 35.99 m to 60.53 m
				150 mm Dia SLOTTED pipe 60.53 m to 71.53 m
20.0M				150 mm Dia BLIND pipe 71.53 m to 91.55 m
24.0M		MEDIUM SAND		150 mm Dia SLOTTED pipe 91.55 m to 97.62 m
		SANDY CLAY		150 mm Dia BLIND pipe 97.62 m to 110.67 m
				150 mm Dia SLOTTED pipe 110.67 m to 113.67 m
36.0M				150 mm Dia BLIND pipe 113.67 m to 127.69 m
				150 mm Dia SLOTTED pipe 127.69 m to 133.69 m
		MEDIUM SAND		150 mm Dia BLIND pipe 133.69 m to 137.69 m
				_____ mm Dia _____ pipe _____ m to _____ m
				_____ mm Dia _____ pipe _____ m to _____ m
56.0M		SANDY CLAY		_____ mm Dia _____ pipe _____ m to _____ m
				_____ mm Dia _____ pipe _____ m to _____ m
68.0M				_____ mm Dia _____ pipe _____ m to _____ m
72.0M		MEDIUM SAND		_____ mm Dia _____ pipe _____ m to _____ m
		SANDY CLAY		_____ mm Dia _____ pipe _____ m to _____ m
				_____ mm Dia _____ pipe _____ m to _____ m
90.0M				_____ mm Dia _____ pipe _____ m to _____ m
		MEDIUM SAND		_____ mm Dia _____ pipe _____ m to _____ m
98.0M		SANDY CLAY		_____ mm Dia _____ pipe _____ m to _____ m
				_____ mm Dia _____ pipe _____ m to _____ m
				_____ mm Dia _____ pipe _____ m to _____ m
110.0M		MEDIUM SAND		_____ mm Dia _____ pipe _____ m to _____ m
114.0M		SANDY CLAY		_____ mm Dia _____ pipe _____ m to _____ m
				_____ mm Dia _____ pipe _____ m to _____ m
126.0M		MEDIUM SAND		_____ mm Dia _____ pipe _____ m to _____ m
				_____ mm Dia _____ pipe _____ m to _____ m
139.0M		CLAY		_____ mm Dia _____ pipe _____ m to _____ m
				_____ mm Dia _____ pipe _____ m to _____ m
167.0M				_____ mm Dia _____ pipe _____ m to _____ m



Total Assembly = 137.69 m + A.G.L. (m) = 130.19 m

ABSTRACT

1. Drilling Started-
2. Drilling Completed/Lowering- 13/06/2022
3. Drilling Depth (m)- ~~167.0M~~ 150m
4. Assembly Lowered (m)- 130.19 m
5. Housing Pipe (m)- 36.29 m
6. Plain Pipe (m)- 83.63 m
7. Slotted Pipe (m)- 10.67 m
8. Reducer (m)- 0.20 m

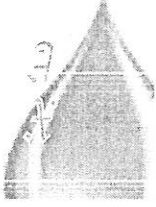
LOGGING REPORT

- 1- 20 - 24 → 4.0
- 2- 36 - 56 → 20.0
- 3- 68 - 72 → 4.0
- 4- 90 - 98 → 8.0
- 5- 110 - 114 → 4.0
- 6- 126 - 139 → 13.0
- 7-
- 8-
- 9-
- 10-

SOUND TEST- \_\_\_\_\_

VERTICALITY TEST- \_\_\_\_\_

 NCC LTD	 J.E & A.E	 P.M.C.T.P.I.A	E.E
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# Aqua Xplore

(Groundwater Assessment & Allied Services)

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

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

Ref. 611 – D / AX- 2022

Date 11.06.2022

## Geophysical Borehole Logging Report

Name of the site : Dehra Tikar, Block- Belghat  
District : Gorakhpur  
Date : 11.06.2022  
Depth logged : 140.0 mbgl  
Depth drilled : 167.0 mbgl- as reported  
Logger use : Robertson make  
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	20.0—24.0	4.0	Good all
<del>2</del>	<del>36.0—56.0</del>	<del>20.0</del>	
<del>3</del>	<del>68.0—72.0</del>	<del>4.0</del>	
<del>4</del>	<del>90.0—98.0</del>	<del>8.0</del>	
<del>5</del>	<del>110.0—114.0</del>	<del>4.0</del>	
<del>6</del>	<del>126.0—139.0</del>	<del>13.0</del>	

Note. 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.

Verified as per logs provided.

13/06/22

ASSISTANT HYDROGEOLOGIST  
YANTRIK MANDAL  
U.P. JAL NIGAM (RURAL)  
BRAYAGRAJ



# 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

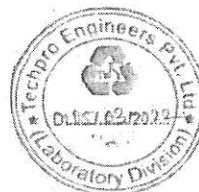
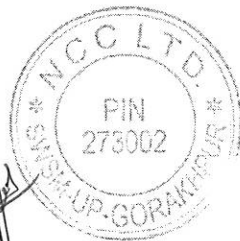
### Terms & Conditions:

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./SI. No. But only SI. No is mentioned in results.

Checked By:

*Alok Chauhan*

Alok Kumar Chauhan  
(Technical Manager)

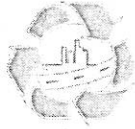


Approved By:

*Arvind Kumar Garg*

Arvind Kumar Garg  
(Quality Manager)





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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

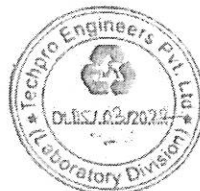
Sl. No.	Particular of Test	Test Passing %	Specification As Per IS (383 & 4097)	Test Method	Remarks
1.0	Sieve Analysis (% by weight)	12.5 mm	100	IS 2386 (Part-1) 1963, RA-2016	-
		8.0 mm	100		
		6.30mm	100		
		4.75 mm	80.90		
		3.35 mm	14.40		
		2.00 mm	8.60		
2.0	Combined Flakiness & Elongation Index (% 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*

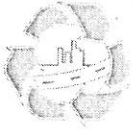
Alok Kumar Chauhan  
(Technical Manager)



Approved By:

*Arvind Kumar Garg*

Arvind Kumar Garg  
(Quality Manager)



# TECHPRO ENGINEERS PVT. LTD.

(Laboratory Division)

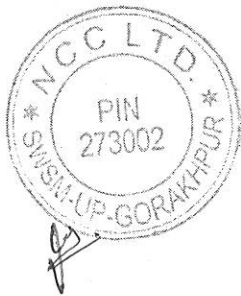
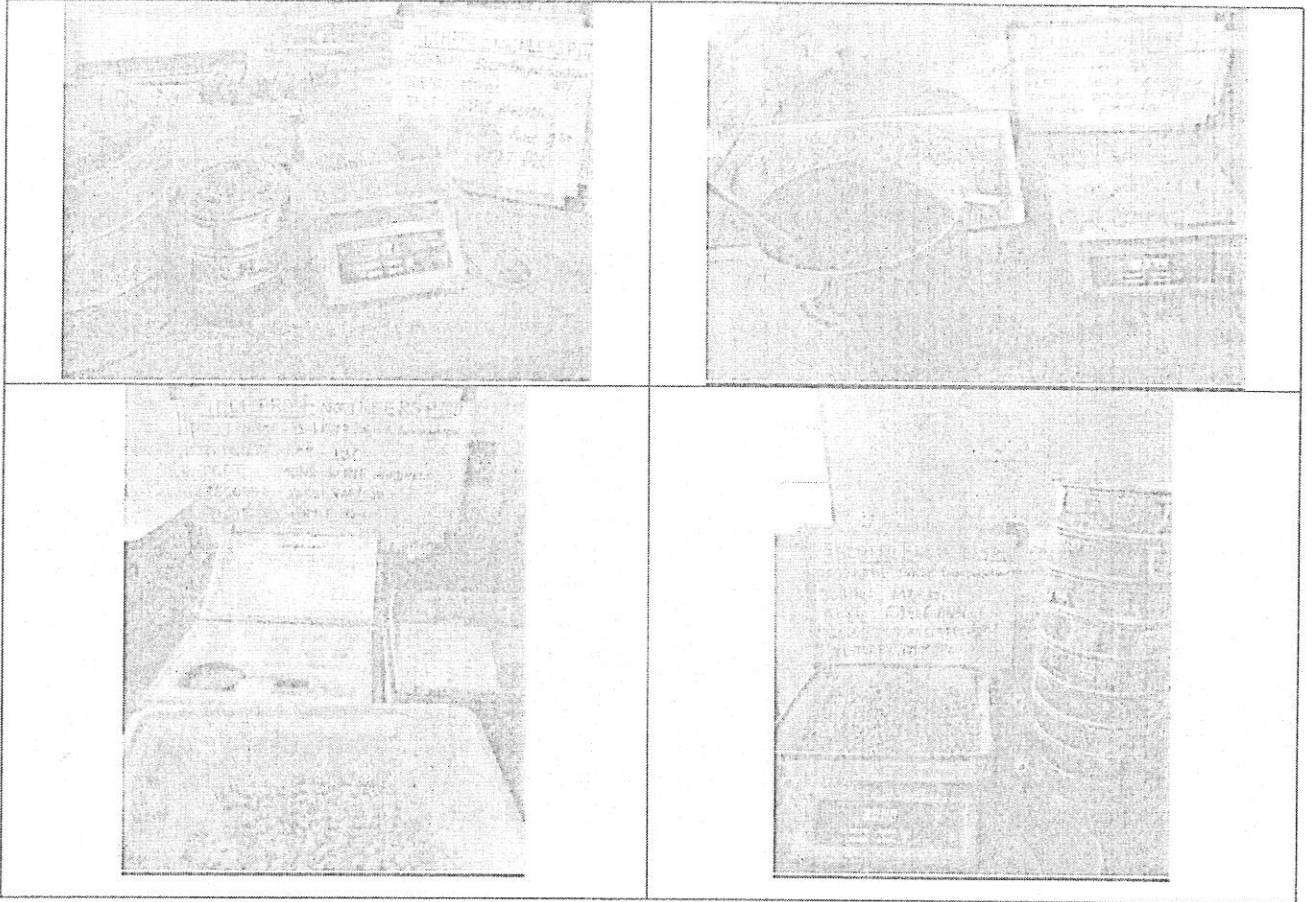
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## PHOTOGRAPHS



END OF REPORT



प्रोजेक्ट्स एण्ड डेवलपमेंट इण्डिया लिमिटेड  
PROJECTS & DEVELOPMENT INDIA LIMITED

Inspection Report/Certificate

Certificate/Report No. 1500-005000049311-C  
Dated 14.02.2022

Client /Purchaser	M/S SWSM UP/ M/S NCC LIMITED	Inspection office	INSP NOIDA
P.O. No. & Date	NCC/SWSM-GORAKHPUR-SOUTH/2157/21-22 03.02.2021	Start Date of Inspection	12.02.2022
Supplier /Manufacturer	M/S DADU PIPES (P) LTD.	End Date of Inspection	12.02.2022
Sub Supplier	NA	PDIL Job no	4004006945
Sub supplier P.O.No & date	NA	PDIL Sales Order No.	
Project Name		Total P.O. value	LS
Client Reference		Total inspected item value	LS
P.O.Status	COMPLETE	Inspection Status	FINAL

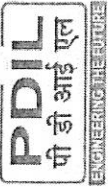
IC/IR Status APPROVED

SI 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.
01	01	150MM DIA 5.4 MM THK (THE SLOT SIZE SHALL BE 75MM*1.20MM AND IT SHOULD BE ZIG-ZAG PATTERN AS PER IS8110)	MTR	738	738	738	A	738	738	AS PER PO	BATCH NO.: 22B05
02	02	200MM DIA 7.1 MM THK (THE SLOT SIZE SHALL BE 75MM*1.20MM AND IT SHOULD BE ZIG-ZAG PATTERN AS PER IS8110)	MTR	108	108	108	A	108	108	AS PER PO	BATCH NO.: 22B01
03	03	150MM DIA 5MM THK MS ERW PIPE AS PER IS 4270	MTR	1458	1470	1470	A	1458	1458	AS PER PO	BATCH NO.: 22B04
04	04	300MM DIA 7.1MM THK	MTR	468	480	480	A	468	468	AS PER PO	BATCH NO.: 22A29

Status Code (for details refer remarks): A- Accepted, C- Customer Clearance Required, D-Deviated, P- Partial Accepted, R- Rejected, S- Stage, W- Rework, X-Refer Remarks	
Signature	
Name	SANDEEP SINGH BHATT
Company/Organization	PDIL (Inspection & NDT)
	Client/Purchaser
	Supplier/Manufacturer
	Sub Supplier

\* This Inspection Certificate is issued without prejudice of contractual obligation of the supplier and does not relieve him from the guarantees and obligations set forth in purchase order and attachment.





प्रोजेक्ट्स एण्ड डेवलपमेंट इण्डिया लिमिटेड  
PROJECTS & DEVELOPMENT INDIA LIMITED

Inspection Report/Certificate

Certificate/Report No. 1500-005000049311-C  
Dated 14.02.2022

Client /Purchaser	M/S SWSM UP/ M/S NCC LIMITED	Inspection office	INSP NOIDA
P.O. No. & Date	NCC/SWSM-GORAKHPUR-SOUTH/215721-22 03.02.2021	Start Date of Inspection	12.02.2022
Supplier /Manufacturer	M/S DADU PIPES (P) LTD.	End Date of Inspection	12.02.2022
Sub Supplier	NA	PDIL Job no	4004006945
Sub supplier P.O.No & date	NA	PDIL Sales Order No.	
Project Name		Total P.O. value	LS
Client Reference		Total inspected item value	LS
P.O.Status	COMPLETE	IC/IR Status	APPROVED
		Inspection Status	FINAL

SI No.	P.O./BOM /Item No.	Description (Nomenclature, Size, Final Specification)	Unit	Ordered Qty	Offered Qty	Inspected Qty	Accepted Qty	Cummulative Qty	Document Ref.	Heat no./batch No./Earlier certificate NO./material identification etc.
		MS ERW PIPE AS PER IS4270								

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 "P&d/117".

Enclosure:

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

Remarks:

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

Status Code (for details refer remarks): A- Accepted, C- Customer Clearance Required, D-Deviated, P- Partial Accepted, R- Rejected, S- Stage, W- Rework, X-Refer Remarks	
Signature	
Name	SANDEEP SINGH
Company/organization	PDIL (Inspection & NDT Noida)
	Approved By (HOD Insp.)
	Client/Purchaser
	Supplier/Manufacturer
	Sub Supplier

\* This Inspection Certificate is issued without prejudice of contractual obligation of the supplier and does not relieve him from the guarantees and obligations set forth in purchase order and attachment.