

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/A/S/TW/Belghat/24	Date And Time -	16/04/2022 @ 12:10pm
Description:	Lowering of pipe with assembly & filling of pea-gravel.		
Location:	Block - Belghat, GP - Baghaila.		
Preceding RFI No.	NA.		
Commencement of work:	17/04/2022		
Submitted By:	Balaram Gosai		
Signature:	Bg.		
Designation:	JE (Civil)		
Concessionaire:	Proceed	Hold	
Name:	Shailendra Singh		
Designation:	Senior Engineer.		
Comments:	① Pea Gravel test Report 90 + present on site. provided		

Bgorai
18/04/2022

Signature
Contractor Representative

Signature
18/04/2022
T-R-F-A

Signature
Consultant Representative

Signature
Client Representative

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Request For Inspection

RFI No:	SWSM-UP-GKP/S/ Tw/Belghat/24/R ₁	Date And Time -	17/04/2022
Description:	Rectification of Compliance.		
Location:	Block- Belghat, P.P- Baghartha.		
Preceding RFI No.	SWSM-UP-GKP/S/Tw/Belghat/24		
Commencement of work:	17/04/2022		
Submitted By:	Babram Gaurai		
Signature:	Bj.		
Designation:	JE (Civil)		
Concessionaire:	Proceed	Hold	
Name:			
Designation:			
Comments:	① Pea-Gravel Test report is attached.		

Bj.
 Signature
 Contractor Representative

Haidesh
 Signature
 Consultant Representative

 Signature
 Client Representative

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 : 12/04/2022

Test report no : NCC/GKP-5/QC/109

SL NO.	DESCRIPTION	OBSERVATIONS
1	Source of material :	Lakuan, Nainital, Uttarakhand
2	Location :	Block Name- BELGHAT
		G.P Name- BAGHAILA
3	Date of sampling :	10/04/2022
4	Lab. Test no :	109
5	Sample no. :	109
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	00	00	00	100	OK
4.75 mm	72	72	7.2	92.8	OK
2.36 mm	795	867	86.7	13.3	OK
1.18 mm	119	986	98.6	1.4	OK
Pan	02				
Total(gm)=	1000				

The Hardness of Material is= —

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

NCC LTD.

PMC/TPIA

CLIENT



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

As per IS : 2386 (Part-3)

Date of Testing-

17/04/2022

Test report no :

NCC/GKP-S/O/C/109

SL NO.	DESCRIPTION	OBSERVATIONS
1	Source of material :	Zalkuan, Nainital, Uttarakhand
2	Location :	NAME OF THE BLOCK - BELUNAT
		NAME OF THE GRAM PANCHAYAT - BAGHAIRA
3	Date of sampling :	18/04/2022
4	Lab. Test no :	109
5	Sample no :	109

SPECIFIC GRAVITY TEST AT ROOM TEMPERATURE

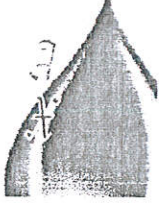
6	Weight of the Jar, W1 (gm)=	252 gm
7	Weight of Jar + Gravel, W2 (gm)=	263 gm
8	Weight of Jar + Gravel + Water, W3 (gm)=	853 gm
9	Weight of the Jar + Water, W4 (gm)=	726 gm
10	Specific Gravity =	$\frac{W2 - W1}{(W2 - W1) - (W3 - W4)} = \frac{211}{211 - 127} = 2.51$

Note : The Specific Gravity should not be less than 2.5

NCC LTD.

PMIC/TPIA

CLIENT



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 415 - B / AX - 2022 Date 15.04.2022

Geophysical Borehole Logging Report

Name of the site : Baghaila, Block- Belghat
District : Gorakhpur
Date : 15.04.2022
Depth logged : 136.0 mbgl
Depth drilled : 145.0 mbgl
Loggee use : ~~UPTRON~~ Robertson
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(mbg)	Thickness(m)	Remarks
1	42.0--56.0	14.0	Good all
2	73.0--103.0	30.0	
3	122.0--132.0	10.0	

Note.

verified as per logs provided.

G.S.H.

ASSISTANT HYDROGEOLOGIST

YANTRIKSANDAS

JAL NIGAM (RURAL)

PRAYAGRAJ

for Aqua Xplore

CC;

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



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

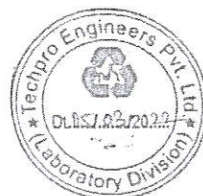
Sl. No.	Particular of Test	Test Passing %	Specification As Per IS (383 & 4097)	Test Method	Remarks	
1.0	Sieve Analysis (% by weight)	12.5 mm	100	-	IS 2386 (Part-1) 1963, RA-2016	-
		8.0 mm	100			
		6.30mm	100			
		4.75 mm	80.90			
		3.35 mm	14.40			
		2.00 mm	8.60			
2.0	Combined Flakiness & Elongation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

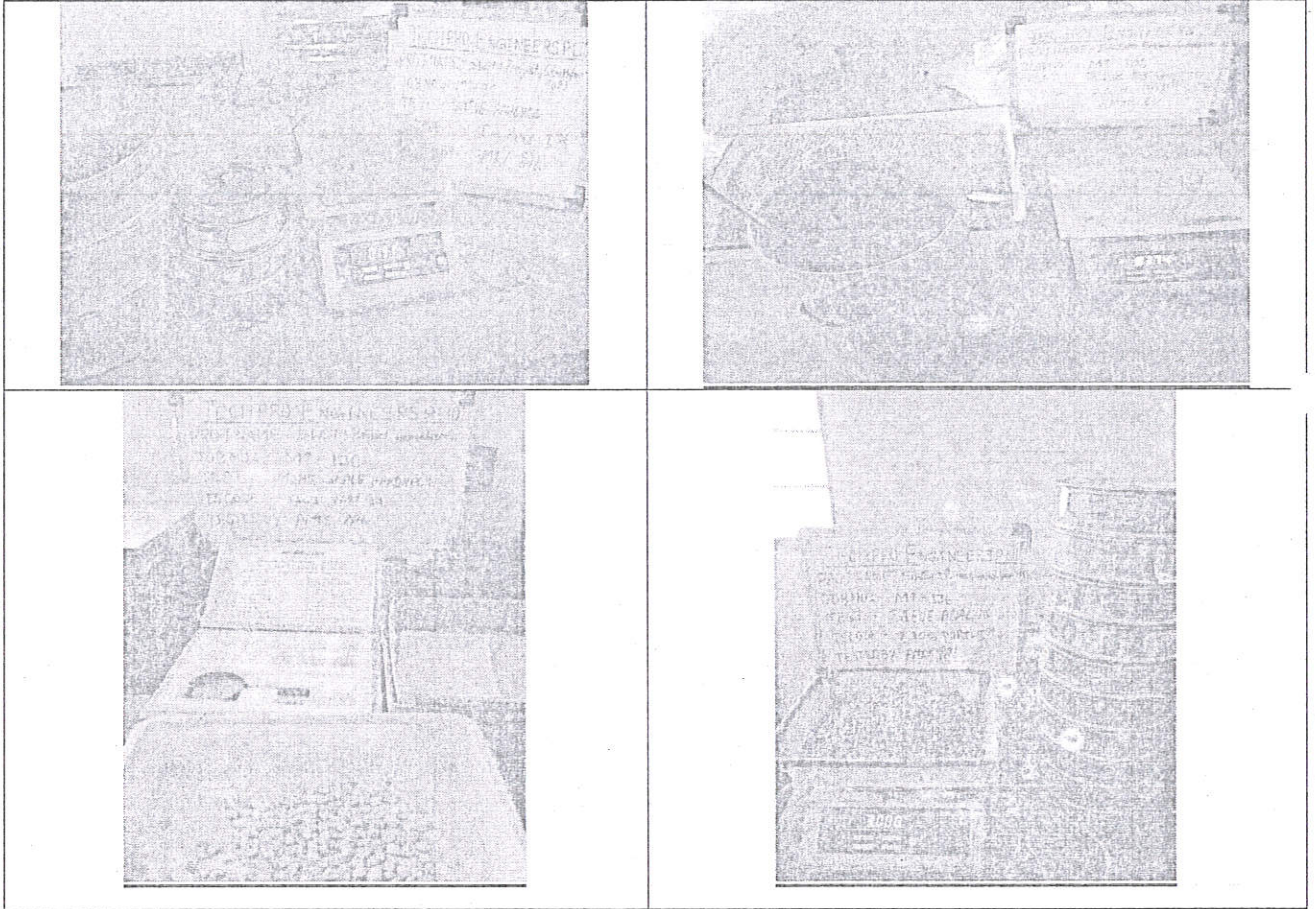
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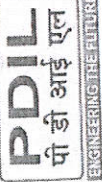
Doc No.: TEQR-36C, Issue No.: 02, Issue Date: 18/08/20, Rev. No. : 01, Rev. Date: 10/12/2020

PHOTOGRAPHS



END OF REPORT

प्रोजेक्ट्स एण्ड डेवलपमेंट इण्डिया लिमिटेड
PROJECTS & DEVELOPMENT INDIA LIMITED



Certificate/Report No. 1500-005000049309-C
Dated 14.02.2022

Inspection Report/Certificate

Client /Purchaser		M/S SWSM UP/ M/S NCC LIMITED		INSPECTION OFFICE		INSP NOIDA	
P.O. No. & Date		NCC/SWSM-GORAKHPUR-SOUTH/218/21-22 05.02.2021		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.		NA	
Project Name		NA		Total P.O. value		NA	
Client Reference		NA		Total inspected item value		NA	
P.O Status		COMPLETE		Inspection Status		FINAL	
SI No.		P.O./BOM /Item No.		Description (Nomenclature,Size,Final Specification)		Unit	
01		01		150 MM DIA 5 MM THICK MS ERW PIPE AS PER IS4270:2001		MTR	
		Ordered Qty		Offered Qty		Inspected Qty	
		462		474		474	
		Accepted Qty		Status		Cumulative Qty	
		462		A		462	
		Document Ref.		Heat no./batch No./Earlier certificate NO./material identification etc.		AS PER PO & IS 4270:2001	
		BATCH NO.: 22B04					

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

COMPANY/ORGANIZATION

SUB SUPPLIER

CLIENT/PURCHASER

SUPPLIER/MANUFACTURER

STATUS

REMARKS

Signature
Name
Company/organization
Sub Supplier
Client/Purchaser
Supplier/Manufacturer

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

SANDEEP SINGH BHATI (Inspection & ND)

PDIL (Inspection & ND)

PDIL Approved By (HOD Insp.)

Client/Purchaser

Supplier/Manufacturer

Status

Remarks

* 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.

Estimate for Baghatla Gram Panchayat					
Water Supply Scheme					
Under - SWSM					
Block-Belghat 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	212692.00	212692
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.	100.00	2013.00	201300
2.06	500 MMØ	Mtr.		2422.00	
2.07	600 MMØ	Mtr.			
2.08	DC/RC Drilling from 101 Mtr. To 200 Mtr.Deep				
2.09	450 MMØ	Mtr.		1960.88	
2.10	500 MMØ	Mtr.	45.00	2144.00	96480
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	Mtr.		1250.00	
2.21	200/165 MMØ (in over burden/Hard Rock)	Hr.		2900.00	
2.22	Development / Flushing of tubewell 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.	76.00	1900.00	144400
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 Tubewell Assembly Lowering Works	RM	130.00	471.68	61318
	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				
4.07	150 MMØ MSERW Plane/Slotted Pipe	Mtr.	30.00	376.00	11280

BOQ Item No.	Description	Unit	Qty	Rate	Amount
4.08	200 MMØ MSERW Plane/Slotted Pipe	Mtr.		499.19	
4.09	300 MMØ MSERW Plane/Slotted Pipe	Mtr.		745.58	
4.10	Lowering from 201 Mtr. To 300 Mtr. Deep				
4.11	150 MMØ MSERW Plane/Slotted Pipe	Mtr.		385.19	
4.12	200 MMØ MSERW Plane/Slotted Pipe	Mtr.		459.00	
4.13	300 MMØ MSERW Plane/Slotted Pipe	Mtr.		606.62	
4.14	Lowering from 301 Mtr. To 400 Mtr. Deep & above				
4.15	150 MMØ MSERW Plane/Slotted Pipe	Mtr.		426.53	
4.16	200 MMØ MSERW Plane/Slotted Pipe	Mtr.		499.00	
4.17	300 MMØ MSERW Plane/Slotted Pipe	Mtr.		643.94	
5.00	Supply and Packing of Gravel Works Supply and unconsolidated packing of gravel with suitable size	Cum	38.00	7500.00	285000
	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	1.00	230200	230200
7.07	12.5 HP	Nos		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
A.1 - 13	Electrically operated Sluice Valve:-				
A.1 - 13.01	Electrically operated Sluice Valve PN 1.0 dia 80 mm	Nos	2.00	125000	250000
A.1 - 13.02	Electrically operated Sluice Valve PN 1.0 dia 125 mm	Nos		125000	
9.00	Electrically operated Sluice Valve PN 1.0 dia 100 mm	Nos		125000	
9.01	Electrically operated Sluice Valve PN 1.0 dia 150 mm	Nos	1.00	125000	125000
9.02	Electrically operated Sluice Valve PN 1.0 dia 200 mm	Nos		150000	
A.1 - 14	Check Valve:-				
A.1 - 14.01	Check Valve PN 1.0 DPCV dia 80 mm	Nos	1.00	27519.8	27520
9.03	Check Valve PN 1.0 DPCV dia 100 mm	Nos		27519.8	
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	