

Tocurement Services				Page	e 7 of 6
INSPECTION REPORT N° J	EL/BVINDB/POD/IR/03				
☐ Initial ☐ Interim ☒ Final ☐					
Inspection requested by: M/s Jas			A		
BV Job Nr: IND.V.4.19.0600 (I),		EL SUS		ZIG NO-	6108590
					0.0000
Project: Performance test of sta	inless steel wall mounted sli	ide gate	IPO Ref (If applicate	ole):	
for 100000 operation cycle.			(BV internal P/o)		
BV Client: M/s Jash Engineering			P/o nr: Acceptance of Proposal. (client to BV)		
Manufacturer/Vendor: M/s Jash			P/o nr: Not Applica (client to Manufactu		
Sub-Vendor(If applicable): Not A	Applicable.				
Inspection Location: M/s Jash MP.		ampur	Previous Inspection	on : 05 &13.05	.2021
Inspection performed on: 05,13	3 & 20.05.2021		Next Inspection(If	applicable): No	ot Applicable.
MATERIAL / SUBJECT OF II	NODECTION				
MATERIAL / SUBJECT OF II	NSPECTION	IT	EM / TAG Nr	QTY	QTY
□ Pofor to	attachment section J ins	4000		As per P/O	Offered for
	rial list is provided in attachn				inspection
PERFORMANCE TEST FOR 10	0000 OPERATION CYCLE	nem)	Gate Serial No		
STAINLESS STEEL FABRICATE	ED SLIDE GATE.		Oate Ochai IVO		
SIZE- 24" X 24 ", SERIES A 112			201912208		01 No.
MATERIAL OF CONSTRUCTION-ASTM A 240 TP 304,					
SEALING MATERIAL-EPDM RU	IBBER				

- INSPECTION RESULT					
Satisfactory S	atiofootomith		N 10 di 6 1		
	atisfactory with	Not Satisfactory	_Not Satisfac	tory	
Without comments) comments (Any oftrailing Punch or Non			R raised duringthe pection)		
	ormity itemsis still open)	1115	Dection)		
spection Summary:(for detail		-			
> Product performance of SI	ide gate size 24" x 24 ", wa	s verified	- by witnessing the	leakage rate l	pefore the star
of the test, at intermediate	stage (At 50000 Cycles) &	after co	mpletion of 100000	voles - The re	sults of the le
rate across the sealing face	e was found confirming to th	e require	ement of AWWA C56	31-14 clause 5	.2
	es, details in section G es, details in section H		No No		
	es, number: Not applicable		⊠ No		
Traceability Stamping	es, number. Not applicable	L	⊠ No		
Traceability Stamping			788		
A	GUNDIA				
V Inspector:	(E) 2 2 E	BV Coo	rdinator:		*
arendra karma	INDORE TIME	Mr. Rahu	ıl Tiwari		
ont. No.+91 9111003977		Cont. No. +91 9826042677			
/ Office:Indore	11/10		ion Report Date:2	20.05.2021	
stribution:⊠ CLIENT ⊠BV			nents Report:	.0.00.2021	
OTHER:			details in section I	□ No	

INSP PROC 002-En Rev.3.2B - APR.2021

Inspection Report No. JEL/BVINDB/POD/IR/03

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Procurement Services

Page 2 of 6

B - REFERENCE DO	CUMENTATION:			7 49	JC 2 01 0
		(Indicate if s		to attachment se	
Title	Reference n°	Rev.	Approval status	Approved by	Date
Specification	AWWA C561-14				

C - ATTENDEES					
Name	Position	Representing	E-Mail ID	Phone No.	
Mr. Rohit Rathi	Sr. Manager QA	M/s Jash Engineering Ltd. (SEZ).	rohitrathi@jashindia.com	+91 97555 99658	
Narendra Karma	Field Inspector	M/s BVIL-Indore	Narendra.karma@bureauveritas.com	+91 9111003977	

D - MEASURING & TESTING EQUIPMENT USED Refer to attachment section J instead (Indicate if separate equipment list is provided in attachment)					
Equipment Type	Equipment Identity n°	Calibration traceable to NABL/ISO 17025 accredited lab(Yes/No)	Last Calibration Date	Expiry Date	
Pressure Gauge (0-1.06 kg/cm²)	MPC-195888Y	Yes (CC 2304)	20/06/2020	19/06/2021	
Whether above equipment(s) checked for suitability and condition (Yes/No)					

E - INSPECTION DETAILS						
Sr.no.	QAP stages	Evidences attached (Yes/No)				
		Not Applicable				
E1 - Det	tails of Witness (W) & Ho	ld (H) Inspection Points				

> Details of inspection activities carried out with respect to scope of work:

BV Scope of work- To witness leakage rate in slide gate under simulated site conditions after 100000 operation cycle.

- 1) Stainless steel fabricated slide gate (size-24" x 24 ") bearing serial no-201912208 with pneumatic actuator mounted on test bench was visually verified for simulation of site condition & cycle control.
- 2) Before initiation of the cyclic test of 100000 Nos, the gate was subjected to hydro test at gauge pressure of 0.6 Kg/cm² (equivalent 20 feet water head), and leakage rate of 600 ml/min (0.0158 gpm*) was noted during this test.— which was found within stipulated permissible leakage as per AWWA C561-14.
- 3) Operation test started on 05.05.2020 with initial counter meter reading 00000 and counter meter sealed.
- 4) At intermediate stage after completion of 50000 operation cycles (at 50000 cycle), the slide gate was subjected to hydro test at 0.6 Kg/cm² (equivalent 20 feet of water head) as per drawing, and leakage rate of 180 ml/min (0.0475 gpm³) was noted during this test which was found within stipulated permissible leakage as per AWWA C561-14.
- 5) Operation test continued to complete further 50000 cycles.

INSP PROC 002-En Rev. 3.2B - APR. 2021

Inspection Report No. JEL/BVINDB/POD/IR/03

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6)	On completion of 100 (equivalent 20 feet or						
a figur	during the test.— with						gpiii) was noted
7)							naterial visually
''	verified for any signif						laterial visually
** 0	pm- US Gallons per M		tou no damage	to galace al	id deale of the	Job.	
1							
	Suitability of Instr		2			2	
	 Pressure Gauge working condition 			least count o	of 0.5 kg per cr	n ² found suita	able and in good
	working condition	rat the time of i	ispection.				
	Results of Inspec stipulated permissi					n cycle were	found within
E2 -	- Details of Monitor	ing and Surve	illance Patro	ols	p		
Mor	itoring/Surveillance	Not Corried out	during vioit			ick if condu	cted during the visi
			during visit.				
E3 -	- Details of Certifica	ates Review					
						ck if condu	cted during the visi
	- Calibration certificat	te of measuring	instrument we	re verified -fo	ound in order.		
	BVIL has only veri	fied the technica	l content durir	og the certific	ate review of h	ought out ite	em(s) and is not
	accountable for any						
<u>E4</u> -	- Problem Pending						
EE	Manufacturing Pro	acces Status	. Not applicable				
E3-	- Manufacturing Pro	ocess status .	Not applicable				
F	JEALTH CAFETYS	ENVIDONME	NIT COMMEN	ITC			
	HEALTH, SAFETY&	ENVIRONME	NI COMINEN	115			
			(Comme	nt on Observ	ations and Act	ions Taken D	During the Inspection
	 Whether the safety 	requirement is	assessed by u	sing two mini	utes of safety l	pooklet for m	y safety. (Yes/No)
	Yes.						
G- NO	ON CONFORMITIES						
					☐ Refer to	attachment	section J instead
				(Indicate if	separate pund	ch list is provi	ided in attachment)
tem	Description	Status	Raised on	Report #	Closed on	Report #	Comments
			N	ii.			
4 6	UNCH LIST						
1-r	ONCH LIST				☐ Refer to	attachment	section J instead
				(Indicate if			ided in attachment)
tem	Description	Status	Raised on	Report #	Closed on	Report #	Comments
			N	1.			
	5555555 D 2.23	D A DD 2021					

INSP PROC 002-En Rev. 3.2B - APR. 2021

Inspection Report No. JEL/BVINDB/POD/IR/03

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Industry & Facilities DivisionProcurement Services

Page 4 of 6

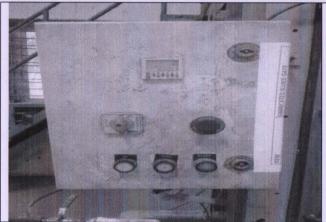
I - DIGITAL PICTURES



Description: Slide gate valve.



Description: Slide gate valve.



Description: Counter meter from 0 cycles



Description: Hydrostatic test pressure before start operation cycle (0.6kg/cm²)



Description: leakage rate before start operation cycle (Found 600ml).



Description: Observed leakage rate before start operation cycle (Found 600ml).

INSP PROC 002-En Rev. 3.2B - APR. 2021

Inspection Report No. JEL/BVINDB/POD/IR/03

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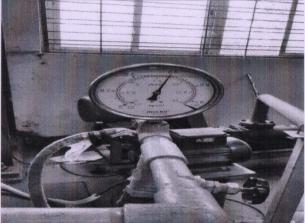


Procurement Services

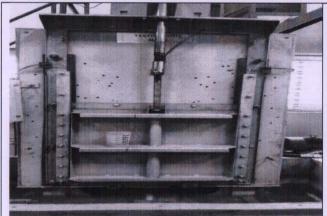
Page 5 of 6



Description: Counter meter at 50000 cycles.



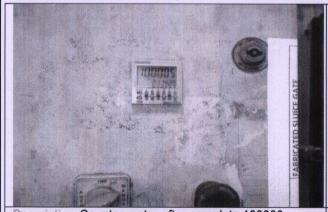
Description: Hydrostatic test pressure at 50000 cycle (0.6kg/cm²).



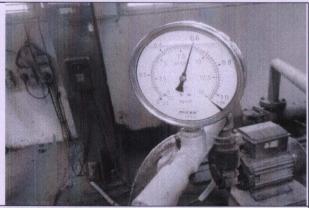
Description: Observed leakage rate after operation test of 50000 cycle (Found 180ml).



Description: Observed leakage rate after operation test of 50000 cycle (Found 180ml).



Description: Counter meter after complete 100000 cycles.



Description: Hydrostatic test pressure after complete 100000 cycles (0.6kg/cm²)

INSP PROC 002-En Rev. 3.2B - APR. 2021

Inspection Report No. JEL/BVINDB/POD/IR/03

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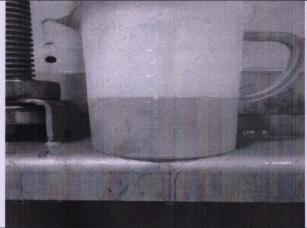


Procurement Services

Page 6 of 6



Description: Observed leakage rate after complete 100000 cycles (Found 220ml).



Description: Observed leakage rate after complete 100000 cycles (Found 220ml).

J – A	J - ATTACHMENTS					
Item	Attachment Name	Total Pages	Description			
1	Annexure-1	1	Slide gate performance validation reports.			
2	Annexure-2	1	Calibration certificates.			

END OF REPORT



SLIDE GATE PERFORMANCE VALIDATION

Product Details

Sluice Gate / Slide Gate

Applicable Standard

AWWA C 561-14

Location of Test Facility

RODNEY HUNT (A Division of Jash Engineering Ltd.). M-19, SEZ Phase -II, Misc. Zone Pithampur-454775,

Dist. Dhar, Madhya Pradesh, India

Material of the Slide

Stainless Steel ASTM A 240

Material of Seals / Guides

UHMWPE ASTM D 4020

No of Operation Cycle

100000 cycles

Test Media

Water with Abrasive Silica Sand

Size of slide Gate

24 inch X 24 inch

Leakage rate across sealing surface (Unseating) - 20 feet water head

Allowable leakage rate as per AWWA 561: 14

0.800 gpm / 3.02 lpm

(A) Before start of cycle test (Observed)

0.158 gpm / 0.60 lpm

(B) After completion of 50000 cycles (Observed)

0.048 gpm / 0.18 lpm

(C) After completion of 100000 cycles (Observed)

0.058 gpm / 0.22 lpm

Rodney Hunt and Jash gate series cover the above

Sealing system

Sealing Nomenclature

Series A 112, A113, A 211, A 212, A 213, A311

HARSA™ (High Abrasion Resistant and Self Adjusting) sealing system comprises of low friction seals of Ultrahigh-molecular-weight polyethylene fitted on frame

with compression resilient cord seal.

Conclusion:

The product tested has shown excellent wear resistance and leakage control characteristics, based on the final leakage rate noted after completion of the test.

Leak rate after completion of Cycle test was well within 7.3% of the permissible value.

Organization: RODNEY HUNT

RODNE

Inspection Agency: Bureau Veritas India Pvt. Ltd.

Quality Head: Rohit Rathi

Surveyor Name: Narendra Karma

Signature: Robil-Ratur

Signature:

Date: 20/05/2021

Date: 20/05/20