Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist	**Dr. Yugam Chopra** MD (Pathology) CEO & Consultant Pathologist

NAME	: Mr. AVTAR SINGH		
AGE/ GENDER	: 38 YRS/MALE	**PATIENT ID**	: 1779733
COLLECTED BY	:	**REG. NO./LAB NO.**	**: 012503050043**
REFERRED BY	:	**REGISTRATION DATE**	: 05/Mar/2025 03:30 PM
BARCODE NO.	: 01526517	**COLLECTION DATE**	: 05/Mar/2025 03:31PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	**REPORTING DATE**	: 05/Mar/2025 05:06PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

Test Name	Value	Unit	Biological Reference interval

CLINICAL PATHOLOGY

SEMEN ANALYSIS/SEMINOGRAM

PHYSICAL EXAMINATION

Test Name	Value	Unit	Biological Reference interval
TIME OF SPECIMEN COLLECTION	05-03-2025	AM/PM	
DURATION OF ABSTINENCE	3 DAYS	DAYS	2 - 7
TYPE OF SAMPLE	FRESH		
LIQUIFACTION TIME AT 37*C	< 30 MINS	MINS	30 - 60
VOLUME	1	ML	
COLOUR	WHITISH OPAQUE		WHITISH OPAQUE
VISCOSITY	MODERATELY VISCOUS		VISCOUS
pH	8^H		5.0 - 7.5

AUTOMMATED SEMEN ANALYSIS, GOLD STANDARD, WHO APPROVED (SQA GOLD)

Test Name	Value	Unit	Biological Reference interval
TOTAL SPERM CONCENTRATION *by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM*	26.5	Millions/mL	12 - 16
TOTAL MOTILITY (GRADE A + GRABE B + GRADE C) *by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM*	74	%	> = 42.0
RAPIDLY PROGRESSIVE MOTILITY (GRADE A) *by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM*	49	%	> = 30.0
SLOWLY PROGRESSIVE MOTILITY (GRADE B) *by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM*	13	%	>= 30
NON PROGRESSIVE MOTILITY (GRADE C) *by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM*	12	%	<= 1
IMMOTILE *by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM*	26	%	
MORPHOLOGY NORMAL *by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM*	13	%	> = 4.0
MOTILE SPERM CONCENTRATION *by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM*	19.7	Millions/mL	> = 6.0
RAPIDLY PROGRESSIVE MOTILE SPERM CONCENTRATION *by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM*	12.9	Millions/mL	> = 5.0
SLOWLY PROGRESSIVE MOTILE SPERM CONCENTRATION *by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM*	3.4	Millions/mL	
FUNCTIONAL SPERM CONCENTRATION	4.6	Millions/mL	

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.

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Test Name	Value	Unit	Biological Reference interval
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			
VELOCITY (AVERAGE PATH VELOCITY)	43	Mic/sec	> = 5
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			
SPERM MOTILE INDEX (SMI)	115		> = 80
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			
TOTAL PER EJACULATION			
TOTAL SPERM NUMBER	26.5	Millions/ejc.	> = 39.0
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			
TOTAL MOTILE SPERM	19.7	Millions/ejc.	> = 16.0
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			
TOTAL PROGRESSIVE MOTILE SPERM	16.4	Millions/ejc.	> = 12.0
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			
TOTAL FUNCTIONAL SPERM	4.6	Millions/ejc.	
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			
TOTAL MORPHOLOGY NORMAL SPERM	3.4	Millions/ejc.	> = 2.0
by ELECTRO-OPTICS SIGNAL & COMPUTER ALOGRITHM			
MANUAL MICROSCOPY AND MORPHOLOGY			
VITALITY	77	%	
by MICROSCOPY			
RED BLOOD CELLS (RBCs)	NOT DETECTED	/HPF	NOT DETECTED
by MICROSCOPY			
PUS CELLS	1-3	/HPF	0 - 5
by MICROSCOPY			
AGGLUTINATES	NOT DETECTED		NOT DETECTED
by MICROSCOPY			
AMORPHOUS DEPOSITS/ROUND CELLS/DEBRIS	NOT DETECTED		NOT DETECTED
by MICROSCOPY			
BACTERIA	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY			
HEAD DEFECTS	35	%	
by MICROSCOPY			
PIN HEADS	8	%	
by MICROSCOPY			
NECK AND MID-PIECE DEFECTS	24	%	
by MICROSCOPY			
TAIL DEFECTS	17	%	
by MICROSCOPY			

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Chairman & Consultant Pathologist	CEO & Consultant Pathologist

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Test Name	Value	Unit	Biological Reference interval
CYTOPLASMIC DROPLETS *by MICROSCOPY*	2	%	
ACROSOME/NUCLEUS DEFECTS *by MICROSCOPY*	1	%	

CHEMICAL EXAMINATION

SEMEN FRUCTOSE (QUALITATIVE) *by QUALITATIVE METHOD USING RESORCINOL*	**POSITIVE (+ve)**	**POSITIVE (+ve)**

INTERPRETATION:
1. Fructose is the energy source for sperm motility. A positive fructose is considered normal.
2. Azoospermia and fructose negative results may indicate an absence of seminal vesicles / vas deferens in the area of seminal vesicles / obstruction of seminal vesicles.

*** End Of Report ***

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