

**BHAGWAN BIRSA BIOLOGICAL PARK - OMANJHI, RANCHI,
CCTV SYSTEM- BILL OF MATERIALS**

Sl. No.	Description	Total qty	Units
1	IP High Speed OD PTZ Dome Camera; Ref item 4.1 of Technical specs	36	Nos
2	IP High Speed ceiling flush mounted PTZ Dome Camera; Ref item 4.5 of Technical specs	2	Nos
3	IP Vari-focal lens Box/Dome/Bullet camera; Ref item 4.2 of Technical specs	53	Nos
4	IP ceiling/wall mtd, Indoor, camera with Wide Angle fixed lens; Ref item 4.3 of Technical specs	27	Nos
5	IP Wall flush mtd, Indoor, camera with Wide Angle fixed lens; Ref item 4.3 of Technical specs	10	Nos
6	IP 12 mm Outdoor pole/ceiling mtd fixed lens Box/Dome/Bullet camera; Ref item 4.4 of Technical specs	30	Nos
7	Video operations, control, management, recording and processing software; Ref item 4.6 of Technical specs	3	lot
8	Network Video Recorder (NVR) / Video (VRM) with storage device: Ref item 4.7 of Technical Specs	3	Nos
9	8 GB Hard Discs for above mentioned NVR; Part of Item 4.8 of Technical specs	24	Nos
10	Network components for the CCTV control room: Core Switch; Part of Item 4.8 of Technical specs	1	Nos
11	Network components for the CCTV control room: LIU's & other miscellaneous items; Part of Item 4.8 of Technical specs	1	LOT
12	Network components for the CCTV control room: 42U Rack etc.; part of item 4.8 of Technical Specs	2	Nos
13	PC WS for maintenance in the Control Room, includes one 23" monitor: Ref item 4.9 of Technical Specs	1	Nos
	Sub Total 1-13		

Sl. No.	Description	Total qty	Units
BF - Sub total 1-13			
14	PC WS for monitoring & control in the Control Room, includes 23" monitor: Ref item 4.9 of Technical Specs	2	Nos
15	PC WS for monitoring & control in Remote locations, includes 23" monitor: Ref item 4.9 of Technical Specs	2	Nos
16	Wall mounted 55" LED monitors for Control Room; Ref item 4.9.13 of Technical Specs	4	Nos
17	Wall mounted 55" LED monitors for Control Room; Ref item 4.9.13 of Technical Specs	2	Nos
18	Un-Interrupted Power Supply, 10 KVA : Ref item 4.10 of Technical Specs	1	Nos
19	CCTV Control Desk & furniture: Ref item 4.11 of Technical Specs	4	Nos
20	Network components for the Field Stations: OD weatherproof junction box with stand. Ref item 4.8 Of Technical specs	28	Nos
21	Network components for the Field Stations: LIU's with patch cord; Ref item 4.8 Of Technical specs	74	Nos
22	Network components for the Field Stations: POE switches with 2+8 port & accessorie. Ref item 4.8 Of Technical specs	37	Nos
23	Un-Interrupted Power Supply 1 KVA: Ref item 4.10 of Technical Specs	28	Nos
24	12C single mode, armoured Fibre Optic Cable; Ref item 4.12 of Technical specs	6,000	M
25	CAT 6 Armoured Cable: Ref item 4.12 of Technical Specs	10,000	M
26	3 M high Camera Pole with foundation; Ref 4.13 of Technical Specs	26	Nos
Sub total 1-26			

Sl. No.	Description	Total qty	Units
BF Sub Total 1-26			
27	5 OR 6 M high Camera Pole with foudation; Ref 4.13 of Technical Specs	58	Nos
28	8 M high Camera Pole with foundation; Ref 4.13 of Technical Specs	1	Nos
29	GI pipes of various diameters and lengths including accessories	2,000	M
30	Suitable size Man-Holes for ground cabling - qty as required	100	Nos
31	All types of connectors, jacks, pig tails & other miscellaneous components for completion of Network	1	LOT
32	All Electrical components and accessories to connect mains power to UPS and CCTV equipments	1	LOT
33	Hard surface digging, cable laying and back filling	100	M
34	Soft surface digging, cable laying and back filling; mechanical	12,000	m
35	Soft surface digging, cable laying and back filling; manual	2,000	m
36	System Installation, Testing, Commissioning; includes documentation, drawings, training, warranty.	1	LOT
37	Any other item required for completion of project	1	LOT
Grand Total			