



Indus Towers Ltd

Small Cell site Electrical ACCEPTANCE CHECK SHEET

Indus Site ID:

Circle: Balhi

Project: Small Cell Project

Date of completion:

Date of Audit:

Site name:

District:

Build Partner:

I&C Partner:

Quality Audit Agency:

To be Filled by Build Vendor

S.No	Description / Checkpoints	Specification	Inspection Method	Observation n Yes / No / NA	Remarks / Comments
ELECTRICAL I&C SHALL BE COMPLIED BY INSTALLATION PARTNER					
1	Check the existing structure to install the pole mounts for fixing of small cell equipment	Shall be wall of minimum 125mm thickness	Physical Verification	NA	NEW pole installed 6m
2	Check the approved layout & BoQ	The approved layout of each small cells is approved by Indus PM & BoQ by Planning- 1. Location of Meter, Mains DB, ACDB, Cable route, Pole mount location 2. Power tapping point from existing utility power	Layout verification	yes	Pole tapped by layout not av
3	Check the installation of pole mount	1. Pole mounts shall be as per approved drawing 2. No of poles : single pole if 2 small cell / Two poles for 4 small cells. 3. Height of pole mount: 600mm length for VF / 1000mm for Airtel 4. All fasteners are adequately tightened to the structure & all are galvanized	Physical Verification	yes	6m 1 pole in Hilti Faster 10*125 mm As per Drawing
4	Check the type of ACDB	1. The ACDB shall be IP55/54 rated. 2. ACDB assembly shall complied to IEC61439	Test certificate/Data sheet verification and visual check	yes	IP54
5	Check the configuration of ACDB	The MCB & Bus bar inside ACDB(8Way) shall be : B. Airtel small cell 1. Incoming- 1x 2P 63A 10KA breaking capacity 2. Outgoing- 1 x 1P 32A 10KA breaking capacity 3. Outgoing-3x1P 6A 10KA breaking capacity C. Earthing & neutral bus bar shall be made available inside ACDB. D. Internal cabling from input MCB to outgoing MCB shall be done with minimum 2.5Sq.mm copper HRFR grade cable	Test certificate/Data sheet verification and visual check	yes	2P x 63A - 1NO'S 32A x 1P - 1 Applicable standard: MCB: IEC60947-2 Cable: IS 694:2010 Make of MCB: Schneider available (pre) 32A x 1P not avail
6	Check the ACDB installation	1. The ACDB shall be installed within 3mtrs vicinity to the small cell location.(as per approved layout) 2. Fixing shall be done with adequate accessories	Physical Verification	yes	within 3m available
7	Check the power cable from main meter of buiding/tapping point to Indus mains incomer DB to Indus submeter to ACDB	The cable shall be of 3 core, 2.5 Sq mm copper armoured Multi strand HRFR grade.	Physical Verification	NO	Cable: IS 1554-1 3c x 2.5 Make of Cable: Crompton Bonton/Finglex/Polycab/Harels not available
8	Check the KWH meter	1. The submeter shall be Single Phase electronic energy meter, Two Wire & accuracy class-1 of current rating 5-30A 2. Backlit LCD Display 3. Measuring parameter: Cumulative KWH, KVAh, Instantaneous KW, Voltage, Current, real time & date and power factor. 4. Meter shall have anti-tamper feature 5. The Meter must have built in power supply/Auxiliary power supply to read meter reading in a absence of external power supply	physical Verification & COMPLIANCE OF KWH METER ON METER	yes	Make of Submeter: L&T Applicable standard: IS 13779, 1999 Only KWH option on Meter only KWH
9	Check the installation Submeter and enclosure	1. Submeter shall be installed inside a IP54/55 enclosure. 2. Shall be installed with all fasteners tightened. 3. Earthing shall be done for enclosure using 2.5 Sqmm copper HRFR grade cable	IP54/55 enclosure & Meter compliance review & physical verifications	yes	Inside submeter enclosure
10	Check the Installation of main incomer DB	The MCB & Bus bar inside mains incomer DB shall be : 1. Incoming- 1 x 2P 63A 10KA breaking capacity 2. Earthing & neutral bus bar shall be made available inside DB. 3. DB shall be of IP55/54 enclosure and installed near to submeter	Test certificate/Data sheet verification and visual check	yes	Applicable standard: 1x2P MCB: IEC60947-2 Make of MCB: Schneider/ABB/L&T Note: IP43 for indoor installation



ELECTRICAL JMS

Ref. Number	R/MN-325126		Audit Date	25/11/19.	
Indus ID	IN-12591A8		TSP Name	QSPS	
Site Name	2HPH Rabangput		QA Name	Indus	
Site ID	LSC41151		Guest Opco Name	AMEL	
Anchor Opco Name	VBS		Guest Opco ID	LSC41151	
Anchor Opco ID	VBS				
Sno.	Description	Utilization	UNIT	Make	Quantity
1	S/L 25 Sq.mm , 4 Core Aluminium conductor, armoured power cable including providing glands & thimbles	Meter Box to PIU	Mtr		1
2	S/L 50 Sq.mm , 2 Core Aluminium conductor, armoured power cable including providing glands & thimbles	DG to PIU	Mtr		1
3	S/L 2.5 Sq.mm , 3 Core Copper conductor, unarmoured power cable including providing glands & thimbles	PIU to Yard Lights	Mtr		08.5M
4	S/L 2.5 Sq.mm , 2 Core Copper conductor, armoured power cable including providing glands & thimbles	PIU to Yard Lights	Mtr		1
5	S/L 70 Sq.mm , single Core copper conductor, unarmoured flexible multistrand power cable including providing glands & thimbles	SMPS to Battery Bank	Mtr		1
6	S/L 16 Sq.mm , 4 Core copper conductor, unarmoured flexible multistrand power cable including providing glands & thimbles	PIU to PP	Mtr		1
7	1) PIU Body earthing	Earthing of Equipment	Mtr		
8	2) PIU Neutral earthing	Earthing of Equipment	Mtr		
9	3) PIU PE Earthing	Earthing of Equipment	Mtr		
10	4) DG body earthing	Earthing of Equipment	Mtr		
11	5) DG Neutral Earthing	Earthing of Equipment	Mtr		
12	6) SMPS Positive bus bar earthing	Earthing of Equipment	Mtr		
13	7) SMPS Body Earthing	Earthing of Equipment	Mtr		
14	8) BB body Earthing	Earthing of Equipment	Mtr		
15	9) Aircon body Earthing	Earthing of Equipment	Mtr		
16	10) other Equipments Earthing	Earthing of Equipment	Mtr		
17	S/L 25 Sq.mm , Green, single Core copper conductor, unarmoured flexible multistrand power cable including providing thimbles	Earthing of Equipment	Mtr		
18		Earthing of Equipment	Mtr		
19		Earthing of Equipment	Mtr		
20	S/L 35 Sq.mm , single Core copper conductor, unarmoured flexible multistrand power cable including providing thimbles	Meter to HRC Fuse/MCCB	Mtr		
21	S/L 2.5 Sq.mm , single Core copper conductor, unarmoured flexible multistrand power cable including providing thimbles	as per requirement	Mtr		02.3M
22	S/L 6 Sq.mm , 2 Core copper conductor, unarmoured flexible multistrand power cable including providing thimbles(4 Runs)	PP to TxRack	Mtr		1
23	S/L 4 Sq.mm , single Core copper conductor, unarmoured flexible multistrand power cable including providing thimbles	as per requirement	Mtr		1
24	S/L 2.5 Sq.mm , single Core copper conductor, unarmoured flexible multistrand power cable including providing thimbles	as per requirement	Mtr		1
25	S/L 5 pair 0.5 sq mm copper cable		Mtr		
26	S/L 2 pair 0.5 sq mm copper cable	SMPS to DDF	Mtr		
27	P/F earthing strip down conductors with GI strip of 25X6mm including steel clamps/saddles at 2 ft distance with steel/plastic fasteners at min 2" C/C with steel screws, drilling, brazing, making strips straight, all scaffolding/or laying the strip 0.5mtr u	Earthing Strip Down Conductor	Mtr		14.2M
28	P/F earthing strip down conductors with GI strip of 25X3mm including steel clamps/saddles at 2 ft distance with steel/plastic fasteners at min 2" C/C with steel screws, drilling, brazing, making strips straight, all scaffolding/or laying the strip 0.5mtr un	Earthing Strip Down Conductor	Mtr		1
29	P/F external grounding bus bar(EGB) made of GI plates of size 300X150X3mm incl providing insulators of 2 nos, fastners, nuts, bolts, washers, drilling of holes before galvanizing etc complete	External Grounding Bar	Nos		
30	P/F of Tinned Copper Internal Bus Bar(IGB) (300mm (L)X75mm (H)X3mm (T)) with 16 Nos. of Holes (with 6mm nuts,bolts & washers) for termination of 25 sq. mm.(1 core) earthing cable. EGB to be fixed to shelter using insulators	Internal Grounding Bar	Nos		
31	P/F GI strip 50x6 mm below the ground for shorting earth pit.		Mtr		
32	P/F earthing strip down conductors with GI strip of 25X6 mm including insulators at 2 ft distance		Mtr		

(meter to ACDB)

(Earthing)

Ref. Number	PINN-325726	Audit Date	25/2/19.
Indus ID	2N-1859176	TSP Name	OSPL
Site Name	2PHS Badang Rd.	QA Name	Indus
Site ID	LSCH41151	Guest Opco Name	Indus
Anchor Opco Name		Guest Opco ID	LSCH41151
Anchor Opco ID			
33	Providing & fixing of Franklin Rod of 19 mm dia and 800 mm length with pointed on top.	Tower	Nos
34	Providing & fixing of GI Rod of 25 mm dia and 800 mm length with pointed on top.	Tower	Nos
35	P/F Aviation Light LED based -Type B, 32 cd intensity, 24 / 48 v DC operated, UV protected, -10 to 60 C, Cable entry IP65 polyamide gland suitable up to 2C X 2.5 sq.mm screened PVC shielding armoured cable, IP65 polyamide gland suitable up to 2C X 2.5 sq		Nos
36	P/F of 100 Amps MCCB With Nutral Link	After Meter	Nos
37	P/F GI Pipe B class of 2" dia.	DG to Shelter	Mtr
38	P& making of power points - 1 nos and laying wiring for the same (2.5 sq mm.)		Nos
39	P/F Yard Lights		Nos
40	P/F tube light fittings - 2 nos and laying wiring for the same (1.5 sq mm)		Nos
41	Providing & Fixing of Fire and smoke detectors - 1 no	as per requirement	Nos
42	Supply & Fixing of door sensor	as per requirement	Nos
43	P/F 45*45 cable chute(duct)	as per requirement	Mtr
44	P/F 63 Amps 4 pole	as per requirement	Nos
45	P/F 63 Amps 2 pole	as per requirement	Nos
46	P/F 63 Amps 1 pole	as per requirement	Nos
47	P/F 63 Amps 1 pole	as per requirement	Nos
48	P/F 32 Amps 1 pole	as per requirement	Nos
49	HDPE pipe 25 mm	as per requirement	Mtr
50	Supply and Laying of GREEN FLEXIBLE PIPE-63MM	as per requirement	Mtr
51	Supply and Laying of GREEN FLEXIBLE PIPE-50MM	as per requirement	Mtr
52	Supply and Laying of GREEN FLEXIBLE PIPE-25MM	as per requirement	Mtr
53	GI Pipe 50mm Dia	As per requirement	Mtr
54	GI Pipe 40mm Dia	As per requirement	Mtr
55	Stickers as per P1		
56	ISI Rubber mat		
57	50*50*6 Angular		
58	4Way weather proof Box		
59	12Core 1.5Sqmm Copper Armoured Cable	IIPMS TO DG	Mtr
60	16Amps Socket		
61	16Amps Switch		
62	16Amps Switch		
63	Krone Box		
64	Meter Box		
65	4 way MCB Installation only	No's	02 No's

69) Outdoor meter Enclosure box installation only - 01 No's

TSP Representative
Name
Signature
Contact Number

Chaleel Ahmed
9530502826

QA Engineer
Name
Signature
Contact Number

B. NARESH
B. Naresh
996663238
25/07/2019

66) Earth Pit Installation only - 01 No's

67) Meter 5-30A, HPL - 01 No's

68) Hydrant sheet - 01 No's (300 X 400 X 5) mm

70) Sealant bottle - 01 No's



Certificate for Electrical

Date :- 07-Aug-19

I, **Naresh** from M/s. **Indus In-House Quality AP**, certify that the electrical works for this
 Site Name :- **ZPHS School-Badangpet**, Reference No :- **R/NN-325126**, Indus Id :- **IN-1359176**
 Site Address :- **Hyderabad**
 Tower Type :- **RT Pole**, Opco Name :- **Airtel** Op ID:- **LSCHY1151**

was checked and found OK in all respect with consideration of all checkpoints as per check list furnished,
 by TSP.

Electrical works doneby :- **Osps Telecom Services Pvt Ltd** (name of TSP).

Summary of site observations

Following were the observations / deviations observed during electrical inspection of the above site.
 For status of rectification refer inspection reports

Stage	Inspection Date	Revisit if any
E1	25-Jul-19	-

Key observations during 1st inspection:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.

Thanks & regards,

Signatures :-

Prepared By :- B Naresh

Verified By :- M Sangameshwar

Certified By :- BVLN Murthy

Indus In-House Quality AP Representatives

HO ID Number	AP-IH-0819-2354
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Certificate with out Indus In-House Quality AP HO seal, hologram sign and ID number is invalid



कर्मचारी भविष्य निधि संगठन
Employees' Provident Fund Organization

भविष्य निधि भवन, १४, भीकाजी कामा प्लेस, नई दिल्ली - ११००६६
Bhavishya Nidhi Bhawan, 14, Bhikaji Cama Place, New Delhi - 110066

Generated On 14/09/2019 15:53:

Payment Confirmation Receipt

TRRN No :	1201909017299
Challan Status :	Payment Confirmed
Challan Generated On :	14-SEP-2019 15:13:58
Establishment ID :	APHYD0042194000
Establishment Name :	OSPS TELECOM SERVICES PVT. LTD.
Challan Type :	Monthly Contribution Challan
Total Members :	52
Wage Month :	AUG-2019
Total Amount (Rs) :	1,08,225
Account-1 Amount (Rs) :	72,338
Account-2 Amount (Rs) :	2,170
Account-10 Amount (Rs) :	31,808
Account-21 Amount (Rs) :	1,909
Account-22 Amount (Rs) :	0
Payment Confirmation Bank :	HDFC Bank
CRN :	240140919011208
Payment Date :	14-SEP-2019
Payment Confirmation Date :	14-SEP-2019





ESIC
Employees' State Insurance Corporation

Insurance

0

Monthly Contribution > Online Challan Form

Transaction Details		* Required Fields
Transaction status:	Completed Successfully	
Employer's Code No:	52000202200001099	
Employer's Name:	O S P S TELECOM SERVICES	
Challan Period:	Aug-2019	
Challan Number :	05219131337638	
Challan Created Date	14-09-2019 15:46:15	
Challan Submitted Date	14-09-2019 15:46:23	
Amount Paid:	15673.00	
Transaction Number:	192575546754	
<div>PrintClose</div>		

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