

**PART-II**  
**PRICE BID**

1. **Annexure-A:** Charges for Preventive and Annual maintenance including load testing of EOT Cranes.
2. **Annexure-B:** Charges for Major Breakdown.
3. **Annexure-C.1:** Essential Spare List for Maintenance of Cranes.
4. **Annexure-C.2:** Cost Break-up for Major works/modifications/rectification/stand-by-duty/equipment.

**ANNEXURE - A**

**Charges for Preventive and Annual maintenance including load testing of EOT Cranes**  
(Charges applicable for entire duration of contract.)

<b>Charges for PERIODICAL PREVENTIVE MAINTENANCE (PPM) /Crane (half yearly once) in Rs.</b>				
<b>Sl No</b>	<b>Capacity of Crane in tonne (t) and Quantity of Cranes in Nos.</b>	<b>PPM quantity</b>	<b>Unit charge in Rs.</b>	<b>Total charge in Rs.</b>
1.	Up to 1 t (04 nos.)	08		
2.	Above 1.1 t & up to 5 t (65 nos.)	130		
3.	Above 5.1 t & up to 10 t (19 nos.)	38		
4.	Above 10.1 t & up to 25 t (14 nos.)	28		
5.	Above 25.1 t & upto 50 t (01 no.)	02		
<b>Charges for ANNUAL MAINTENANCE (AM) including load testing/Crane (once in 12 months) in Rs.</b>				
		<b>AM with load test, quantity</b>		
6.	Up to 1 t (04 nos.)	08		
7.	Above 1.1 t & up to 5 t (65 nos.)	130		
8.	Above 5.1 t & up to 10 t (19 nos.)	38		
9.	Above 10.1 t & up to 25 t (14 nos.)	28		
10.	Above 25.1 t & upto 50 t (01 no.)	02		
11.	Additional man power supply to meet occasional and special operational and maintenance needs for supervisor, fitter, helper. However, number of person will be decided based on site conditions, <u>tentatively 1800 hrs.</u> <b>Charges per man hour</b>	1800 hrs		
12.	Hired Welder on need basis. Cost per hour will be taken based on entry of person in main gate after CISF clearance; valid passes checking, fitness of person and clearance of their tools/machinery etc., <u>tentatively 100 hrs</u> , for site conditions in hours. <b>Charges per man hour</b>	100 hrs		
		<b>GST @ 18%</b>		
		<b>Total cost in Rs.</b>		

**NOTE:**

- PPM one time in a year followed by AM along with load testing (AM = PPM+Load test).
- For Sl.no.: 11 & 12, the above estimated man hours and other scope are for two years and also it is only indicative. It may vary on person category and man hour, based on the site requirements. **The payment will be made only on actual quantity.**

**CHARGES FOR MAJOR BREAKDOWN \***  
**(Charges applicable for entire duration of contract.)**

<b>Sl No</b>	<b>Breakdown activity</b>	<b>Unit Charges in Rs.</b>
1.	<b>Gear Box Overhauling.</b>	
a.	Up to 1 t	
b.	Above 1.1 t & up to 5 t	
c.	Above 5.1 t & up to 10 t	
d.	Above 10.1 t & up to 25 t	
e.	Above 25.1 t & upto 50 t	
2.	<b>Opening and rectification of gears.</b>	
a.	Up to 1 t	
b.	Above 1.1 t & up to 5 t	
c.	Above 5.1 t & up to 10 t	
d.	Above 10.1 t & up to 25 t	
e.	Above 25.1 t & upto 50 t	
3.	<b>Load testing charges</b> after major breakdown maintenance.	
a.	Up to 1 t	
b.	Above 1.1 t & up to 5 t	
c.	Above 5.1 t & up to 10 t	
d.	Above 10.1 t & up to 25 t	
e.	Above 25.1 t & upto 50 t	
4.	Servicing, replacing and restoring the condition of entire <b>crane power lines</b> including subsystem and accessories and ensuring healthiness after alignment checks etc., of each crane. ie., total work involved to restoration of the system.	
a.	Up to 1 t	
b.	Above 1.1 t & up to 5 t	
c.	Above 5.1 t & up to 10 t	
d.	Above 10.1 t & up to 25 t	
e.	Above 25.1 t & upto 50 t	
5.	<b>Gear box shaft machining</b> works including subsystem and accessories and ensuring healthiness after alignment checks etc., of each crane. ie., total work involved to recondition of the system.	
a.	Up to 1 t	
b.	Above 1.1 t & up to 5 t	
c.	Above 5.1 t & up to 10 t	
d.	Above 10.1 t & up to 25 t	
e.	Above 25.1 t & upto 50 t	
	<b>GST 18 % Extra</b>	

\* The Contractor shall also quote for other major breakdown activities not included in the above list as envisaged.

**NOTE:**

- Removing and bringing down any defective equipment/components such as motors, gearbox, brakes, shafts, wheels, couplings etc., from EOT crane for further repair is the responsibility of the contractor. The contractor shall also re-assemble the parts immediately after the repair. All kind of major breakdown service included service/replacement of sub components like 'O'ring, key, bush, coupling, gears etc.,
- The entire major break down activities shall be carried out with the prior clearance and duly approval of concerned user division engineer in-charge and its Division Head only and submitted to AMC focal point, safety division for payment clearance.
- If works arrived other than Sl.no.:1 to 5 mentioned along with subdivisions, the contractor has to deploy man power for rectification, stand by duty, occasion works, support works etc, the labour charges will be applicable as per the rates quotes in Annexure – A.
- Gear Box shaft machining – it is treated as single unit only. However, we recommend to service entire system like single shaft, double shaft & triple shaft etc., based on site conditions.

**ANNEXURE - C.1****ESSENTIAL SPARE LIST FOR THE MAINTENANCE OF CRANES \*  
(Charges applicable for entire duration of contract.)**

<b>Sl No.</b>	<b>Description</b>	<b>@ Unit Price (in Rs.)</b>
1.	Oil seal for LT, CT & MH Gear boxes, specification as per crane manufacturer and as per site.	
2.	Limit switch - Gravity Type, Rotary type for hoist specification as per crane manufacturer and as per site. (Make: BCH/SOC/STROMKRAFT)	
2.a.	Limit switch (flame proof) - Gravity Type, Rotary type for hoist specification as per crane manufacturer and as per site conditions. Make: BCH, SOC, STROMKRAFT.	
3.	Limit switch- lever type for LT/CT (Make: SOC)	
3.a.	Limit switch (flame proof) - Lever type for LT/CT (Make: SOC) specification as per crane manufacturer and as per site conditions.	
4.	Brake liner with rivets and entire subcomponents/accessories, specification as per crane manufacturer and as per site. For various capacity of cranes as listed.	
4.a.		Up to 1 t
4.b.		Above 1.1 t & up to 5 t
4.c.		Above 5.1 t & up to 10 t
4.d.		Above 10.1 t & up to 25 t
4.e.		Above 25.1 t & upto 50 t
5.	Plummer block with bearings for CT/LT (Make: SKF/NBC/FAG), specification as per crane manufacturer and as per site. For various capacity of cranes as listed.	
5.a.		Up to 1 t
5.b.		Above 1.1 t & up to 5 t
5.c.		Above 5.1 t & up to 10 t
5.d.		Above 10.1 t & up to 25 t
5.e.		Above 25.1 t & upto 50 t
	Wheel Bearing for CT/LT (Make: SKF/NBC/FAG) specification as per crane manufacturer and as per site. For various capacity of cranes as listed.	
5.f.		Up to 1 t
5.g.		Above 1.1 t & up to 5 t
5.h.		Above 5.1 t & up to 10 t
5.i.		Above 10.1 t & up to 25 t
5.j.		Above 25.1 t & upto 50 t
6.	EM brake (Make: PATHE) with entire subcomponents/accessories, specification as per crane manufacturer and as per site. For various capacity of cranes as listed.	
6.a.		Up to 1 t
6.b.		Above 1.1 t & up to 5 t
6.c.		Above 5.1 t & up to 10 t
6.d.		Above 10.1 t & up to 25 t
6.e.		Above 25.1 t & upto 50 t
7.	Hydraulic thrusters' brake (Make: SOC/STROMKRAFT) with entire subcomponents/accessories, specification as per crane manufacturer and as per site. For various capacity of cranes as listed.	
7.a.		Up to 1 t
7.b.		Above 1.1 t & up to 5 t
7.c.		Above 5.1 t & up to 10 t
7.d.		Above 10.1 t & up to 25 t
7.e.		Above 25.1 t & upto 50 t
8.	Hot dip galvanised IWRC wire rope, range 5mm to 40 mm & above 40 mm (only indicative) including compound (Make: USHA MARTIN). It should be arranged by contractor based on capacity of the crane and its specification as per site requirement.	
8.a.		5 mm to 10 mm
8.b.		11 mm to 20 mm
8.c.		21 mm to 30 mm
8.d.		31 mm to 40 mm
8.e.		41 mm to 60 mm
8.f.		61 mm - 120 mm
9.	Gear box shaft (EN-9) with entire subcomponents/accessories as per crane manufacturer and as per site requirement. For various capacity of cranes as listed.	
9.a.		Up to 1 t
9.b.		Above 1.1 t & up to 5 t

9.c		Above 5.1 t & up to 10 t	
9.d		Above 10.1 t & up to 25 t	
9.e		Above 25.1 t & upto 50 t	
10.	Idler puller for main hoist (MH) with entire subcomponents/ accessories, as per crane manufacturer and site requirement.		
11.	Spring for brake tension with entire subcomponents/accessories as per crane manufacturer and site requirement.		
12.	Brake shoe connecting linkage (as per crane manufacturer) with entire subcomponents/accessories, and site requirement.		
13.	Rubber buffer standard, as per crane manufacturer and site requirement.		
14.	Brake oil (Transformer oil and as per crane manufacturer and site requirement)		
15.	Gear box oil (140 Grade oil and as per crane manufacturer and site requirement)		
16.	PVC sheathed, flexible cables with multi strand copper conductors' cable 4 C x 6 Sq.mm along with subsystem and accessories and chain, as per crane manufacturer.		
16.a	PVC sheathed, flexible cables with multi strand copper conductors' cable 4Cx10 Sq.mm along with subsystem and accessories and chain, as per crane manufacturer and site conditions.		
17.	PVC sheathed, flexible cables with multi strand copper conductors' cable 4 C x 4 Sq.mm along with subsystem and accessories and chain, as per crane manufacturer.		
18.	PVC sheathed, flexible cables with multi strand copper conductors' cable 4 C x 2.5 Sq.mm along with subsystem and accessories and chain, as per crane manufacturer.		
19.	PVC sheathed, flexible cables with multi core & multi strand copper conductors' cable of 24 C x 1.5 Sq.mm along with subsystem and accessories and chain, as per crane manufacturer.		
20.	Push button with conductors, as per crane manufacturer and site requirement.		
21.	Mushroom type button with lockable key, as per crane manufacturer and site requirement.		
22.	Indication lamp (24 V)		
23.	Indication lamp (110 V)		
24.	Indication lamp (230 V)		
25.	Power conductors along with HRC fuses (16 A)		
26.	Power conductors along with HRC fuses (32 A)		
27.	Power conductors along with HRC fuses (40 A)		
27.a	Power conductors along with HRC fuses (63 A)		
27.b	Power conductors along with HRC fuses (above 63 A) as per site availability		
28.	Emergency stop push button with conductors		
28.a	Changeover/selector switch with conductors		
29.	Relay for control - 6 V		
29.a	Relay for control - 6 V to 24 V		
30.	Power convertor - 24 V AC TO 24 V DC		
31.	Power convertor - 230 V AC TO 7.5 V DC		
32.	Resistor for Hoist - 500 Ohms		
32.a	Resistor for Hoist - upto 1000 Ohms		
33.	Hooter - 110 V AC		
34.	Hooter - 230 V AC		
35.	Hooter - 24 V AC		
36.	Hooter - 7.5 V DC		
37.	<b>Variable speed drives and related spares - VVVF</b> (Make: # <b>EMERSON (control technique)</b> / # <b>L&amp;T</b> / \$ <b>NELCO</b> / \$ <b>HITACHI</b> / # <b>ABB</b> / # <b>YASAKAWA</b> /\$ <b>DANFOSS</b> /# <b>SEW</b> /# <b>SIEMENS</b> / \$ <b>TELEMIC</b> ) to be supplied, and installed as per crane manufacturer, including first time programming being new item their subsystems and accessories, consulting and rendering service from OEM (if required) etc., as per site requirement.		
<b>Supply of drive for Hoist motor</b>			
37.a		Up to 1 t	
37.b		Above 1.1 t & up to 5 t	
37.c		Above 5.1 t & up to 10 t	
37.d		Above 10.1 t & up to 25 t	
37.e		Above 25.1 t & upto 50 t	
<b>Supply of drive for C.T motor</b>			
37.f		Up to 1 t	
37.g		Above 1.1 t & up to 5 t	
37.h		Above 5.1 t & up to 10 t	
37.i		Above 10.1 t & up to 25 t	
37.j		Above 25.1 t & upto 50 t	

<b>Supply of drive for L.T motor</b>		
37.k		Up to 1 t
37.l		Above 1.1 t & up to 5 t
37.m		Above 5.1 t & up to 10 t
37.n		Above 10.1 t & up to 25 t
37.o		Above 25.1 t & upto 50 t
37.p	Programming of VVFD for Hoist, CT, LT as per crane manufacturer and site requirement.	
37.p1	Supply of programming – single handheld workstation (laptop) DELL/HP/SONY of recent technology including accessories and with rated UPS, tripod-based screening aid (stand), laser colour printer with one spare toner/cartridge apart with working (HP/Canon) and projector system along with accessories, suitable stands, cooling and carry unit, chargeable audio system as per site condition. in LOT.	
37.p2	Supply of portable power station above 1500w, 756wh, LPF battery as per site condition. in Nos.	
37.p3	Supply of collapsible support for examine and displaying the cured system as per site condition. in Nos.	
37.p4	Supply of single-phase single cylinder air compressor (Make: ELGI), 230 v., single stage reciprocating type, Reservoir cap.: 100 L, Delivery: 4.194 CFM, Pr.: 10 ksc, Speed: 1200 & 1420 rpm, Power: 1 HP, Safety relief valve set pr.: 11.5 bar, Pr. switch set pr.: 3-6 bar, wheel mounted type along critical spares, and standard pneumatic impact wrench (size: 1/2", Make: Ingco/Elephant) with suitable sockets and connectors as per site condition in LOT.	
37.q	Supply of control card for LT, CT, Hoist as per crane manufacturer and site requirement.	
37.r	Drive operating panel as per crane manufacturer and site requirement.	
37.s	Servicing, restoration & installation of VVFD's including replacement of components, subsystems, accessories etc., as per crane manufacturer specification along with handling/transporting/packing, consulting and rendering service from OEM (if required) etc., as per site requirement.	
37.s1		Up to 1 t
37.s2		Above 1.1 t & up to 5 t
37.s3		Above 5.1 t & up to 10 t
37.s4		Above 10.1 t & up to 25 t
37.s5		Above 25.1 t & upto 50 t
38.	Rewinding of power transformer (including all spares like coil, bearings, O-ring, gaskets etc., certified with a warranty period for 12 months from the date of rewinding work) along with entire subcomponents/accessories, as per crane manufacturer and site requirement.	
38.a		Rewinding of 400 V to 7.5 V
38.b		Rewinding of 400 V to 24 V
38.c		Rewinding of 400 V to 110 V
38.d		Rewinding of 400 V to 230 V
39.	Motor rewinding (including all spares like coil, bearings, O-ring, gaskets etc., certified with a warranty for 12 months from the date of rewinding) along with entire subcomponents and accessories, as per crane manufacturer and site requirement.	
39.a		Capacity 1 HP to 5 HP
39.b		Capacity 5.1 HP to 10 HP
39.c		Capacity 10.1 HP to 15 HP
39.d		Capacity 15.1 HP to 20 HP
39.e		Capacity 20.1 HP and above
40.	EHT brake alignment, rewinding, re-conditioning (including all spares like coil, bearings, brake lining, O-ring, gaskets etc., certified with a warranty for 12 months from the date of re-conditioning) along with entire subcomponents/accessories as per crane manufacturer and site requirement.	
40.a		Up to 1 t
40.b		Above 1.1 t & up to 5 t
40.c		Above 5.1 t & up to 10 t
40.d		Above 10.1 t & up to 25 t
40.e		Above 25.1 t & upto 50 t
41.	EM brake alignment, rewinding, re-conditioning (including all spares like coil, bearing, brake lining, O-ring, gaskets etc., certified with a warranty of 12 months from the date of re-conditioning) along with entire subcomponents/accessories as per crane manufacturer and site requirement.	
41.a		Up to 1 t
41.b		Above 1.1 t & up to 5 t
41.c		Above 5.1 t & up to 10 t
41.d		Above 10.1 t & up to 25 t

41.e		Above 25.1 t & upto 50 t	
42.	Gear box Over hauling (including all spares like gear oil of suitable grade, gears, shaft housing, O-ring, gaskets etc. duly certified with a warranty of 12 months from the date of re-conditioning) along with entire subcomponents/accessories as per crane manufacturer and site requirement.		
42.a		Up to 1 t	
42.b		Above 1.1 t & up to 5 t	
42.c		Above 5.1 t & up to 10 t	
42.d		Above 10.1 t & up to 25 t	
42.e		Above 25.1 t & upto 50 t	
43.	Crane history board/custodian board (1.5 ft x 2 ft metallic board). Format will be shared after awarding contract.		
44.	Chain (Metal & acid resistance, etc.) specification as per site. For various capacity of cranes.		
45.	Festooning trolley (Metal & Plastic & acid resistance, etc.) as per crane manufacturer and site requirement. For various capacity of cranes.		
46.	Current collector 3 Phase, specification as per crane manufacturer and site requirement. For various capacity of cranes.		
47.	Safety Latch for crane hook including accessories as per crane manufacturer and site requirement.		
48.	Crane Pendent box (non-flameproof) - total unit along with subsystem and accessories as per crane manufacturer and site requirement.		
48.a	Crane Pendent box (Flame proof) - total unit along with subsystem and accessories as per crane manufacturer and site requirement.		
48.b	Crane Pendent box (ATEX certified) - total unit along with subsystem and accessories as per crane manufacturer and site requirement.		
49.	Radio frequency with remote controller - total unit along with subsystem and accessories as per crane manufacturer and site requirement.		
50.	Anti-collision sensor along with wiring, calibration, replacement etc., for various capacities of cranes, total unit along with subsystem and accessories as per crane manufacturer and site requirement.		
51.	Service/repairing - damage electrical/Instrumentation cabinet/panel door as per crane manufacturer and site requirement.		
51.a		Up to 1 t	
51.b		Above 1.1 t & up to 5 t	
51.c		Above 5.1 t & up to 10 t	
51.d		Above 10.1 t & up to 25 t	
51.e		Above 25.1 t & upto 50 t	
52.	Replacement of damaged electrical/Instrumentation cabinet/panel door as per crane manufacturer and site requirement.		
52.a		Up to 1 t	
52.b		Above 1.1 t & up to 5 t	
52.c		Above 5.1 t & up to 10 t	
52.d		Above 10.1 t & up to 25 t	
52.e		Above 25.1 t & upto 50 t	
53.	4 pole Mini Circuit Breaker (MCB) as per crane manufacturer and site requirement.		
53.a		32 A	
53.b		63 A	
54.	Switch amplifier (isolation barrier) as per crane manufacturer and site requirements.		
55.	High Rupturing Capacity (HRC) fuse (Type: Pin & Screw and for any new suitable type) as per crane manufacturer and site requirements.		
55.a		10 amps	
55.b		16 amps	
55.c		20 amps	
55.d		32 amps	
55.e		40 amps	
55.f		63 amps	
56	Down Shop Lead (DSL) Busbar as per crane manufacturer and site requirements. in meters		
57	Down Shop Lead (DSL) Busbar support hanger clamps as per crane manufacturer and site requirements.		
57.a		single pole	
57.b		three pole	
57.c		four pole	
		<b>GST 18 % Extra</b>	

**NOTE:**

- \* The contractor shall also quote for other spares not included in the above list as envisaged for smooth operation of cranes. The list given above is only bare essential and only indicative, the payment will be made only for actual quantity utilised, no payment will be made for spares kept in stock by AMC team (in IPRC).
- \$ # The contractor scope of work includes Sl.no 1 to 57 along with subdivisions, towards supply of spares, control card and programming of VVVF drive, service and restoring, including accessories, consulting and rendering service from OEM (if required) etc., and also for any new upcoming drive (\$) makes on need basis. If **any models found outdated**, before replacement contractor has to submit the documentary evidence from OEM about the outdated model and clearance for appropriate new model which is suitable for site requirements.
- # Makes are in usage, \$ Makes upcoming.
- Parties have to quote from Sl.no. 1 to 57 along with subdivisions clearly and to bifurcate the other spares separately as above said.
- All the spares should comply with relevant standards along with OEM authorisation, relevant test certificates wherever applicable and to be submitted along with spares.
- The contractor shall clearly indicate the rates for the restoring works, spares, programming and onsite installation of # VVVF drives and also for upcoming drives by OEM.
- All the spares mentioned shall be replaced without any extra service cost including for IPRC issued items (on need basis).
- All the spares mentioned to be replaced only as per manufacturer specification, site requirement and approval of department authorities.
- All spares supplied and utilised should cover the standard warranty/guarantee period, Third party Inspections if applicable.
- @ Units in meters, litre, numbers, lot - suitably as applicable (for oil, oil seal, cable, buttons, chain, fuse, clamps, panel, breaker, bearing, pendant, card, switch, sensor, rewinding, alignment, drives, programming etc).



**COST BREAK-UP FOR MAJOR WORKS / MODIFICATIONS/ RECTIFICATION /ROUTINE /EQUIPMENT/INSPECTION etc., Charges applicable for entire duration of contract.**

<b>Sl No</b>	<b>Category</b>	<b>Unit Charges in Rs.</b>
1.	Hired Welding set with entire set of consumable and accessories. Gas cutting set with entire set of consumable and accessories (including Oxygen cylinder and acetylene cylinder) on need basis. Cost per hour will be taken based on entry of vehicle in main gate after CISF clearance, fitness of person, valid passes checking, fitness of equipment/ machineries etc. If any vehicle involved in handling these equipments/machinery valid permit system /security checks to be strictly adhered as per IPRC protocols <u>in hours</u> . <b>Charges per day</b>	
2.	Hired Forklift with operator and necessary accessories for load testing on need basis. Cost per hour will be taken only based on entry of vehicle in main gate after CISF clearance, fitness of person, valid passes checking and ensuring fitness of vehicle, based on capacity of the vehicle required for site <u>conditions in hours</u> . <b>Charges per day</b>	
3.	Hired Hydra with operator and necessary accessories for load testing on need basis. Cost per hour will be taken only based on entry of vehicle in main gate after CISF clearance, fitness of person, valid passes checking and ensuring fitness of vehicle, based on capacity of the vehicle required for site <u>conditions in hours</u> . <b>Charges per day</b>	
4.	Hired Truck/trailer/tractors with operator and necessary accessories for load testing on need basis. Cost per hour will be taken only based on entry of vehicle in main gate after CISF clearance, fitness of person, valid passes checking and ensuring fitness of vehicle, based on capacity of the vehicle required for site <u>conditions in hours</u> . <b>Charges per day</b>	
5.	Establishing scaffolding - height based on field requirement. However, the in-house equipments like forklift/scissor lifts/height raisers etc., shall be provided up to rated specification. <b>Charges per meter until completion.</b>	
5.a		up to 8 meter
5.b		above 8 to 12 meters
5.c		above 13 to16 meters
5.d		above 16 to 25 meters
5.e		above 26 meters
6.	Minor painting works like touch-up/patch works on rusted areas based on requirement, <u>tentatively 2000 sq.mtr.</u> <b>Charges per Sq.mtr.</b>	
7.	Inspection charges for new cranes towards ensuring the configuration, fitness and offering preliminary inspection of the crane before taking into scope of AMC. <b>Unit charge in Rs.</b>	
7.a		Upto 1 t
7.b		Above 1.1 t & upto 5 t
7.c		Above 5.1 t & upto 10 t
7.d		Above 10.1 t & upto 25 t
7.e		Above 25.1 t & upto 50 t
		<b>GST 18 % Extra</b>

**NOTE:**

- a) The above man hour, man days, unit charge and other scope are only indicative. It may vary person category and man-hours, days etc, may be added/deleted based on the site requirement.
- b) The need of hired man power with industrial heavy vehicle (Sl.no: 2 to 4) requirement based on need when IPRC resource/vehicles not in position to extend support. However, contractor has to give rate for those vehicles with operator with necessary consumables and accessories related to the assigned work. The working hours will be calculated from the time of clearing main gate entry after security checks and by reporting time in site. In case of vehicle delay arises after entry due to technical issues, payment will be made only on hourly basis for the reported day.